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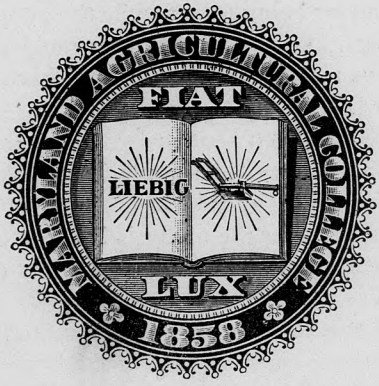

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ADDRESS

Chemical Department, Maryland Agricultural College,

COLLEGE PARK, MD.

ANALYSIS OF

COMMERCIAL FERTILIZERS SOLD IN MARYLAND

BY THE CHEMICAL DEPARTMENT OF THE

MARYLAND AGRICULTURAL COLLEGE.

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The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from *March to June 1903*, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars, at stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all the samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer his name appears after the place of sampling. No sample is analyzed unless fully described on blanks furnished by this Department. The description is not sent in, however, till after the analysis is reported.

No samples are accepted from manufacturers or their agents under any circumstances.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid" are percentages, or pounds per hundred. To get pounds per ton multiply the figures by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The columns headed "No." contain the respective numbers by which the samples are known in the laboratory. In writing to the Chemical Department in regard to any analysis the number should always be given. The samples are numbered consecutively on the books of the office, but are arranged alphabetically for publication, which accounts for the mixing up of the numbers.

"The comparative value found" and the "comparative value guaranteed" are calculated, the former from the analysis found, the latter from the analysis guaranteed on the bags, using the following schedule.

n Mixed Fertilizer:				
For Nitrogen, calculated as Ammonia	17½	cts.	per	pound.
" Potash (K_2O), in forms free from muriate	6	"	"	"
" Potash (K_2O), as muriate	5	"	"	"
" Available Phosphoric Acid	5	"	"	"
" Insoluble Phosphoric Acid	2	"	"	"
" " " " when from S. C. Rock	1	"	"	"
In Dissolved S. C. Rock:				
Available Phosphoric Acid	4	"	"	"
In Ground Bone:				
For Nitrogen, calculated as Ammonia, in "Fine" Bone	16	"	"	"
" Nitrogen, calculated as Ammonia, in "Fine Medium" Bone	14	"	"	"
" Nitrogen, calculated as Ammonia, in "Medium" Bone	12	"	"	"
" Nitrogen, calculated as Ammonia, in "Coarse" Bone	10	"	"	"
" Phosphoric Acid in "Fine" Bone	5	"	"	"
" " " " "Fine Medium" Bone	4	"	"	"
" " " " "Medium" "	3	"	"	"
" " " " "Coarse" "	2	"	"	"
In Tankage and Ground Fish:				
For Nitrogen, calculated as Ammonia	15	"	"	"
" Phosphoric Acid	3	"	"	"

In using the above schedule *all fertilizers containing less than 1 per cent. of ammonia will be given the rock valuation of 4 cents per pound on the available phosphoric acid.*

The "comparative values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use; this varies considerably, depending on the market prices of the ingredients, freight, commissions, size of order, cash or credit, &c.

Sliding-scale guarantees (the use of a maximum as well as a minimum guarantee), as "Ammonia 1 to 3 per cent." is unlawful. The penalty for the first offence is $100 fine.

It is unlawful to sell any brand of commercial fertilizer before the license for the same has been obtained from the Comptroller. When the license is paid by the manufacturer it is not necessary for his agents to obtain another license for the same brands. If, however, the manufacturer resides out of the State, and does not pay the license, each agent selling the goods or offering the same for sale is held responsible for the license.

No	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
11202	American Agr'l Chem. Co., New York.	Dis. Animal Bone.....	Baltimore.....
11120	" " "	Gem Alkaline Phos.....	Baltimore.....
11106	" " "	Gem Alkaline Phos....	Baltimore.....
11128	" " "	Genuine German Kainit	Baltimore.....
11130	" " "	Ground Tankage.....	Baltimore.....
11104	" " "	Pure Ground Bone.....	Baltimore.....
11041	" " "	Pure Ground Bone.. ...	Baltimore.....
11089	" " "	Special Pot. Fertilizer..	Baltimore.....
11070	A. A. C. Co., (Canton Chem'l Co.,) Balto., Md.	Baker's Dissolved S. C. Bone.	Baltimore.....
11048	" " "	Baker's Fish Guano ...	Baltimore.....
10165	" " "	Baker's Special Wheat and Grass Mixture.	Chase .. ..
11166	" " "	Baker's Standard High-Grade Guano.	Chase .....
11097	" " "	German Kainit	Baltimore.....
11188	" " "	Harrow Brand Crop Grower.	Williston.....
11069	" " "	Patrons Bone Mixture..	Baltimore.....
11068	" " "	Potato Manure..... ..	Baltimore.....
11152	" " "	Sol. Bone and Potash...	Hancock.....
11057	" " "	Special Compound.....	Baltimore.....
11181	A. A. C. Co., (Detrick.)...	Ammoniated Bone Phos.	Baltimore.....
11058	" " "	Bone and Pot. Mixture.	Baltimore.....
11141	" " "	Corn and Oats	Mt. Airy.....
11134	" " "	Dissolved S. C. Bone Phosphate.	Damascus. .....
11085	" " "	Gold Basis	Baltimore. .....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11202	2.66	2.50	.....	.....	2.67	12.08	12.00	14.75	.....	$22.46	$ 20.75
11120	.....	.....	2.80	3.00	.55	8.83	8.00	9.38	.....	9.97	9.40
11106	.....	.....	3.14	3.00	.97	6.62	6.00	7.59	.....	8.63	7.80
11128	.....	.....	13.20	12.00	.....	.....	.....	.....	.....	.....	.....
11130	9.56	9.93	.....	.....	.....	.....	.....	8.29	.....	33.65	.....
11104	4.54	4.00	.....	.....	.....	.....	.....	20.13	20.60	30.44	.....
11041	4.69	4.00	.....	.....	.....	.....	.....	20.78	20.60	29.15	.....
11089	1.59	1.00	5.50	7.00	1.05	9.33	9.00	10.38	.....	20.82	19.50
11070	.....	.....	....	.....	.85	14.40	14.00	15.25	.....	11.52	11.20
11048	2.27	2.00	2.22	2.00	1.48	8.15	8.00	9.63	.....	18.91	17.00
11165	1.19	1.00	2.02	2.00	.87	9.16	8.00	10.03	.....	15.70	13.50
11166	2.64	2.50	3.02	3.00	1.25	8.61	8.00	9.86	.....	21.37	19.75
11097	.....	.....	14.88	12.00	.....	.....	.....	.....	.....	.....	.....
11188	1.36	1.00	1.32	1.00	1.27	8.41	8.00	9.68	.....	15.00	12.50
11069	2.25	2.00	3.10	2.50	6.97	6.91	5.00	13.88	.....	20.68	14.50
11068	1.77	1.50	5.24	5.00	.62	6.25	6.00	6.87	.....	17.94	16.25
11152	.....	.....	2.80	2.00	.72	10.22	10.00	10.94	.....	12.42	10.00
11057	2.73	2.50	6.79	6.00	.97	8.31	8.00	9.28	.....	25.05	22.75
11181	1.79	1.50	2.34	2.00	1.80	9.13	9.00	10.93	.....	18.46	16.25
11058	.....	.....	2.27	2.00	.80	10.60	11.00	11.40	.....	10.91	10.80
11141	1.57	1.00	3.10	3.00	1.15	9.82	9.00	10.97	.....	18.88	15.50
11134	.....	.....	.....	.... ..	1.07	14.83	14.00	15.90	.....	11.86	11.20
11085	6.89	7.00	5.23	5.00	.62	7.24	6.00	7.86	.....	36.84	35.50

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
11045	A. A. C. Co. (Detrick).	Gold Eagle	Baltimore
11225	" " "	Gold Eagle	Pocomoke City
11142	" " "	Imperial Compound	Mt. Airy
11121	" " "	K. K. K. Kangaroo Komplete Kompound.	Baltimore
11204	" " "	P. & B. Special	Baltimore
11209	" " "	P. & B. Special	Baltimore
11127	" " "	Paragon Ammon. Bone Phos. and Potash.	Baltimore
11138	" " "	Quick-Step Bone Phos.	Silver Spring
11056	" " "	Royal Crop Grower	Baltimore
11139	" " "	Soluble Bone Phosphate and Potash.	Silver Spring
11226	" " "	Special Mixture	Pocomoke City
11067	A. A. C. Co. (Lazaretto.)	Ammon. Bone Phos.	Baltimore
11066	" " "	Bone Compound	Baltimore
11253	" " "	Crop Grower	Baltimore
11228	" " "	Dissolved Bone and Potash.	Still Pond
11234	" " "	H. G. Dissolved Bone Phos. and Potash.	Baltimore
11035	" " "	Dissolved Bone Phos	Baltimore
11042	" " "	Early Trucker	Baltimore
11206	" " "	Excelsior A. A. A	Baltimore
11186	" " "	Farmers' Potato Mixture	Baltimore
11167	" " "	Retriever Animal Bone	Chase
11052	" " "	Special Potato and Tobacco.	Baltimore
11043	" " "	Tomato Compound	Baltimore

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11045	2.78	3.00	6.29	6.00	1.32	6.14	6.00	7.46	.....	$22.69	$22.50
11225	2.81	3.00	6.30	6.00	.72	6.55	6.00	7.27	.....	22.98	22.50
11142	1.37	1.00	2.38	2.00	1.05	8.87	8.00	9.92	.....	16.47	13.50
11121	2.10	2.00	3.14	3.00	2.37	8.81	8.00	11.18	.....	20.25	18.00
11204	.....	.....	3.45	3.00	.37	11.70	12.00	12.07	.....	12.88	12.60
11209	.....	.....	3.52	3.00	.45	11.61	12.00	12.06	.....	12.90	12.60
11127	1.45	1.00	1.44	1.00	1.40	8.30	7.00	9.70	.....	15.38	11.50
11138	3.29	3.00	4.28	4.00	1.12	8.82	8.00	9.94	.....	25.07	22.50
11056	2.18	2.00	2.30	2.00	1.10	9.09	8.00	10.19	.....	19.46	17.00
11139	.....	.....	2.10	2.00	.87	9.99	10.00	10.86	.....	10.26	10.00
11226	1.47	1.00	1.31	1.00	.97	8.95	8.00	9.92	.....	15.80	12.50
11067	1.26	1.00	2.32	2.00	1.02	8.02	8.00	9.04	9.00	15.16	13.90
11066	1.48	1.25	3.19	3.00	.90	9.40	9.00	10.30	10.00	18.13	16.78
11253	1.82	2.00	2.20	2.00	1.00	8.49	8.00	9.49	.....	17.46	17.00
11228	.....	.....	4.53	5.00	.45	10.46	10.00	10.91	.....	12.99	13.00
11234	.....	.....	5.42	5.00	.50	12.66	12.00	13.16	.....	15.65	14.60
11035	.....	.....	.....	.....	1.17	14.35	14.00	15.52	.....	11.48	11.20
11042	4.93	5.00	5.31	5.00	1.35	7.55	7.00	8.90	.....	30.66	29.50
11206	1.28	1.00	1.08	1.00	1.20	8.35	7.00	9.55	.....	14.39	11.50
11186	1.77	1.50	5.10	5.00	.77	6 73	6.00	7.50	7.00	18.34	16.65
11167	3.07	2.25	4.20	4.00	2.32	10.25	9.00	12.57	13.50	26.13	22.68
11052	1.36	1.00	4.26	4.00	.68	8.65	8.00	9.33	.....	17.94	15.50
11043	1.77	1.50	4.60	5.00	1.11	7.02	6.00	8.13	.....	18.26	16.25

No.	Name and Address of anufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
11199	A. A. C. Co. (Maryland).	Alkaline Bone.....	Baltimore.....
11213	" " "	Ammoniated Bone.....	Providence.....
11200	" " "	Bone Super-Phosphate.	Baltimore.....
11082	" " "	S. C. Dissolved Bone	Baltimore. .....
11201	A.A.C.Co. (Moro Phillips).	Farmers' Phosphate.....	Baltimore.....
11179	A. A. C. Co. (Nickerson).	Acid Phosphate.....	Baltimore.....
11222	" " "	Advance Guano	Smithburg.....
11187	" " "	Alkaline Bone and Potash.	Baltimore.....
11040	" " "	Early Queen.....	Baltimore.....
11095	" " "	Eastern Shore Domestic Guano.	Baltimore.....
11175	" " "	Tomato Fertilizer.....	Baltimore.....
11178	" " "	Truck Guano.....	Baltimore.....
11212	A. A. C. Co. (Reese).	Crown Phosphate and Potash.	Providence.. .....
11214	" " "	Dissolved Phosphate of Lime.	Providence.....
11131	A.A.C.Co. (Susquehanna).	Ammon. Bone Phosphate	Baltimore.....
11063	" " "	Crop Grower.....	Baltimore. .....
11221	" " "	High-Grade Bone.....	Williamsport.....
11220	" " "	Potato and Tobacco.. ...	Williamsport.....
11093	" " "	Pure Bone Phosphate...	Baltimore.....
11174	" " "	XXV Phosphate.....	Baltimore.....
11183	A. A. C. Co. (Tygert Allen)	Dissolved S. C. Rock....	Baltimore.....
11112	A. A. C. Co. (Wheeler).	Corn Fertilizer.....	Baltimore.....
11046	" " "	Electrical Dis. Bone..	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11199	.....	.....	2.29	3.00	.60	12.88	12.00	13.48	.....	$12.71	$12.60
11213	2.30	2.00	3.12	3.00	2.30	9.02	8.00	11.32	.....	21.11	18.00
11200	.....	.....	2.14	2.00	.65	11.28	10.00	11.93	.....	11.29	10.00
11082	.....	.....	.....	.....	.95	14.15	14.00	15.10	.....	11.32	11.20
11201	1.33	1.00	1.28	1.00	1.25	7.89	7.00	9.14	8.00	14.33	11.90
11179	.....	.....	.....	.....	1.47	14.03	14.00	15.50	.....	11.22	11.20
11222	1.31	1.00	1.24	1.00	.62	8.25	7.00	8.87	.....	14.33	11.50
11187	.....	.....	2.21	2.00	.72	11.71	10.00	12.43	11.00	11.72	10.20
11040	4.93	5.00	5.43	5.00	1.27	7.76	7.00	9.03	.....	30.96	29.50
11095	2.34	2.00	3.44	3.00	1.97	8.57	8.00	10.54	.....	20.99	18.00
11175	1.36	1.00	4.30	4.00	1.32	7.95	8.00	9.27	.....	17.54	15.50
11178	2.30	2.00	2.27	2.00	1.42	8.64	8.00	10.06	.....	19.53	17.00
11212	.....	.....	2.32	2.00	.32	11.96	11.00	12.28	.....	11.95	10.80
11214	.....	.....	.....	.....	.97	14.71	11.00	15.68	.....	11.77	8.80
11131	2.18	2.00	2.44	2.00	1.10	8.47	8.00	9.57	.....	18.98	17.00
11063	1.33	1.00	1.51	1.00	1.15	8.55	7.00	9.70	.....	15.18	11.50
11221	....	.....	5.42	5.00	1.00	11.94	12.00	12.94	.....	15.17	14.60
11220	2.87	2.00	5.58	5.00	.55	7.97	8.00	8.52	.....	23.82	20.00
11093	2.63	2.00	2.38	2.00	3.12	11.12	9.00	14.24	.....	23.96	18.00
11174	1.53	1.00	1.86	1.00	1.30	8.40	8.00	9.70	.....	16.14	12.50
11183	.....	.....	.....	.....	.80	14.43	14.00	15.23	.....	11.54	11.20
11112	2.39	2.00	2.08	2.00	1.42	10.82	8.00	12.24	.....	21.84	17.00
11046	.....	.....	.....	.....	1.25	14.75	14.00	16.00	.....	11.80	11.20

No	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling. and Sampler, when not the College.)
11099	A. A. C. Co., (Wheeler)	H. G. Tomato Fertilizer.	Baltimore
11047	" " "	Potato Manure	Baltimore
11151	" " "	Potato Manure	Oakland
11098	" " "	Wheat and Clover Fertz.	Baltimore
11087	A. A. C. Co., (Zell.)	AmomniatedBone Super Phosphate.	Baltimore
11103	" " "	Dissolved Bone Phos	Baltimore
11088	" " "	Economizer Phosphate.	Baltimore
11091	" " "	Electric Phosphate	Baltimore
11149	" " "	Little Giant	Cumberland
11090	" " "	Special Compound for Potatoes & Vegetables	Baltimore
11205	Armour Fertilizer Works, Baltimore, Md.	Acidulated Bone Meal	Baltimore
11132	" " "	All Soluble Fertilizer	Baltimore
11168	" " "	Ammoniated Bone with Potash.	Rossville
11000	" " "	Blood, Bone and Potash.	Greensboro (F. P. Roe & Bro.)
11036	" " "	Bone, Blood and Potash.	Baltimore
11153	" " "	Bone Meal	Keedysville
11086	" " "	Fruit and Root Crop Special.	Baltimore
11124	" " "	Grain Grower	Baltimore
11038	" " "	H. G. Potato	Baltimore
11231	" " "	Kainit	Baltimore
11196	" " "	Manure Substitute	Greensboro
11006	" " "	Muriate of Potash	Cambridge (T. H. Hopkins.)
11194	" " "	Phosphate and Potash No. 1.	Greensboro

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11099	1.36	1.00	1.21	1.00	1.40	8.73	7.00	10.13	.....	$15.26	$11.50
11047	2.58	2.50	3.08	3.00	1.80	8.25	8.00	10.05	.....	21.08	19.75
11151	2.44	2.50	3.56	3.00	.85	8.03	8.00	8.88	.....	20.47	19.75
11098	.....	.....	2.10	2.00	.82	11.80	10.00	12.62	.....	11.70	10.00
11087	2.29	2.00	2.24	2.00	1.15	9.04	8.00	10.19	.....	19.76	17.00
11103	.....	.....	.....	.....	.60	14.78	14.00	15.38	15.00	11.82	11.20
11088	1.30	1.00	2.18	2.00	.75	8.85	8.00	9.60	.....	15.88	13.50
11091	.....	.....	2.07	2.00	.65	11.63	10.00	12.28	.....	11.50	10.00
11149	1.30	1.00	1.36	1.00	.45	7.52	7.00	7.97	.....	13.61	11.50
11090	3.12	3.00	4.06	4.00	.85	8.50	8.00	9.35	.....	23.82	22.50
11205	3.02	2.00	.....	.....	4.47	16.86	11.00	21.33	.....	29.22	18.00
11132	4.26	3.00	4.47	4.00	.65	8.79	8.00	9.44	.....	28.43	22.50
11163	2.76	3.00	3.05	2.00	1.60	7.27	6.00	8.87	.....	20.62	18.50
11000	5.47	5.00	7.15	7.00	.55	9.63	8.00	10.18	.....	37.58	32.50
11036	5.20	5.00	7.69	7.00	.25	8.49	8.00	8.74	.....	34.48	32.50
11153	3.26	3.00	.....	.....	.....	.....	.....	26.01	24.00	32.64	.....
11086	2.11	2.00	5.12	5.00	1.47	8.66	8.00	10.13	.....	21.76	20.00
11124	2 05	2.00	2.40	2.00	1.65	9.07	8.00	10.72	.....	19.31	17.00
11038	2.22	2.00	7.55	10.00	1.50	8.50	8.00	10.00	.....	24.42	25.00
11231	.....	.....	12.85	12.00	.....	.....	.....	.....	.....	.....	.....
11196	4.10	4.00	3.64	4.00	.65	7.02	6.00	7.67	.....	25.27	24.00
11006	.....	.....	55.44	50.00	.....	.....	.....	.....	.....	.....	.....
11194	.....	.....	2.11	2.00	.37	10.44	10.00	10.81	.....	10.53	10.00

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
11193	Armour Fertilizer Works, Baltimore, Md.	Royal Ammon. Bone.. .	Greensboro .....
11185	" " "	Royal Ammon. Bone....	Baltimore.....
11207	" " "	Special Mixture.....	Baltimore.....
11053	" " "	Star Phosphate....	Baltimore.....
11154	" " "	Tankage	Keedysville.....
11238	" " "	Tobacco Special...	Baltimore.....
11123	" " "	Tomato Grower-...	Baltimore. .....
11239	" " "	Valley Brand Tobacco..	Baltimore.....
11060	" " "	Wheat, Corn and Oat Special.	Baltimore..... ...
11219	Baltimore Fertilizer Co., Baltimore, Md.	Acid Phosphate.	Maple Grove.....
11218	" " "	King of the Harvest....	Lineboro.. .....
11162	" " "	Old Honesty.....	Westminster.. .....
11033	" " "	Revenue	Baltimore.....
11173	" " "	Soluble Bone and Potash.	Baltimore... .....
11034	" " "	Success	Baltimore.....
11083	Balto. Pulverizing Co., Baltimore, Md.	Concentrated Cereal Plant Food.....	Baltimore.....
11102	" " "	Penniman's Special Guano No. 1.	Baltimore.....
11101	" " "	Royal Tomato Comp'nd	Baltimore.....
11108	" " "	S. C. Rock	Baltimore. .....
11081	" " "	Special Strawberry Mixture.	Baltimore.....
11072	Baugh & Sons Co., Baltimore, Md.	Animal Bone and Potash.	Baltimore.....
11163	" " "	Cabbage Guano.	Chase..... .....
11073	" " "	Corn Fertilizer	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11193	1.36	1.00	4.11	4.00	1.07	8.26	8.00	9.33	.....	$17.96	$15.50
11185	1.14	1.00	4.37	4.00	.55	9.32	8.00	9.87	.....	17.90	15.50
11207	.78	.50	1.16	1.00	.42	8.77	8.00	9.19	.....	10.99	9.15
11053	.....	.....	.....	.....	.72	14.18	14.00	14.90	.....	11.34	11.20
11154	8.80	8.50	....	.....	....	....	.....	7.19	7.00	30.71	29.70
11238	3.15	3.00	3.35	3.00	.95	9.35	8.00	10.30	.....	24.11	21.50
11123	2.13	2.00	2.28	2.00	.80	9.02	8.00	9.82	.....	19.08	17.00
11239	2.32	2.00	5.38	5.00	1.97	8.38	8.00	10.35	.....	22.67	20.00
11060	1.28	1.00	1.35	1.00	1.20	7.44	7.00	8.64	.....	13.75	11.50
11219	.....	.....	.....	.....	1.37	14.17	14.00	15.54	.....	11.34	11.20
11218	1.65	1.00	3.03	3.00	1.10	11.24	10.00	12.34	.....	20.49	16.50
11162	1.06	.50	2.60	2.00	1.12	8.35	8.00	9.47	.....	15.11	11.75
11033	3.58	3.00	5.65	6.00	1.57	7.12	7.00	8.69	.....	25.93	23.50
11173	.....	.....	2.56	2.00	.90	9.98	10.00	10.88	.....	10.72	10.00
11034	1.36	1.00	6.19	5 00	1.75	6.59	7.00	8.34	.....	18.24	15.50
11083	6.58	6.00	5.37	4.00	..	....	..	.....	.....	28.40	25.00
11102	1.03	1.00	1.83	1.00	1.35	7.68	8.00	8.93	.....	13.62	12.50
11101	2.82	2.00	2.12	2.00	1.97	8.22	8.00	10.19	.....	21.00	17.00
11108	.....	.....	....	.....	.67	14.44	14.00	15.11	.. ....	11.55	11.20
11081	3.09	4.00	3.29	3.00	2.07	6.49	5.00	8.56	.....	21.43	22.00
11072	2.13	2.00	2.50	2.00	1.02	8.34	8.00	9.36	11.00	18.71	18.20
11163	6.75	6.00	5.14	5.00	.57	6.70	8.00	7.27	.....	35.70	34.00
11073	1.30	1.00	4.21	4.00	.97	8.77	8.00	9.74	.....	17.92	15.50

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
11061	Baugh & Sons Co., Baltimore, Md.	Covey's Standard Bone Phosphate.	Baltimore
11164	" " "	Dissolved Animal Bone	Chase
11150	" " "	Double Eagle Phosphate	Oakland
11172	" " "	Excelsior Super-Phos.	Owens' Mills
11137	" " "	Export Bone with Potash.	Hood's Mills
11032	" " "	Fish Mixture	Baltimore
11071	" " "	General Crop Crower	Baltimore
11135	" " "	Hammond's Raw and Dissolved Bone.	Hood's Mills
11136	" " "	Hammond's Special Potash Mixture.	Hood's Mills
11037	" " "	H. G. Acid Phosphate.	Baltimore
11003	" " "	H. G. Acid Phosphate	Baltimore (Geo. Truesdell.)
11105	" " "	H. G. Potato Guano	Baltimore
11233	" " "	H. G. Tobacco Guano	Baltimore
11241	" " "	H. G. Tobacco Guano	Baltimore
11051	" " "	H. G. Truck Fertilizer	Baltimore
11113	" " "	Kainit	Beltsville
11114	" " "	New Process Dissolved Bone.	Middleburg
11049	" " "	Potato Fertilizer	Baltimore
11076	" " "	Pure Dissolved Animal Bone.	Baltimore
11004	" " "	Pure Dissolved Animal Bone.	Baltimore (Geo. Truesdell).
11247	" " "	Raw Bone Meal	Hancock
11180	" " "	Raw Bone Super-Phos.	Baltimore
11251	" " "	7 Per Ct. Potato Guano	Ridgely

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11061	1.59	1.00	6.47	5.00	.85	10.39	12.00	11.24	.....	$22.77	$20.50
11164	3.12	2.50	....	.....	1.97	14.70	13.00	16.67	.....	26.41	21.75
11150	2.52	2.00	1.38	1.00	1.42	9.17	8.00	10.59	11.00	19.94	17.20
11172	1.42	1.00	5.38	4.00	.52	8.40	8.00	8.92	11.00	18.96	16.70
11137	2.56	2.00	2.71	2.00	5.62	8.42	23.00	14.04	.....	22.34	32.00
11032	2.55	2.00	2.59	2.00	2.37	8.89	8.00	11.26	11.00	21.36	18.20
11071	1.28	1.00	1.81	1.00	1.10	8.87	8.00	9.97	11.00	15.60	13.70
11135	2.01	1.75	5.18	3.50	1.57	12.42	8.00	13.99	14.50	25.27	20.23
11136	....	.....	3.10	3.00	1.62	15.58	16.00	17.20	.....	15.88	15.80
11037	.....	.....	...	.....	1.80	14.77	14.00	16.57	15.00	11.82	11.20
11003	.....	.....	.....	.....	2.00	14.96	14.00	16.96	15.00	11.97	11.20
11105	5.01	5.00	7.61	7.00	.67	8.71	6.00	9.38	.....	34.13	30.50
11233	3.19	3.00	4.86	3.00	1.15	7.89	8.00	9.04	.....	24.38	21.50
11241	3.04	3.00	3.86	3.00	1.85	7.40	8.00	9.25	.....	22.64	21.50
11051	3.07	3.00	3.61	3.00	.80	8.56	8.00	9.36	.....	23.24	21.50
11113	.....	.....	12.75	12.4	.....	.....	.....	.....	.....	.....	.....
11114	2.56	2.00	.....	... ...	2.82	12.21	10.00	15.03	.....	22.30	17.00
11049	2.11	2.00	2.48	2.00	1.15	8.79	8.00	9.94	.....	19.12	17.00
11076	2.73	2.50	.....	.....	1.87	13.81	13.00	15.68	.....	24.12	21.75
11004	2.76	2.00	....	.....	1.82	15.09	12.00	16.91	.....	25.48	19.00
11247	4.93	4.50	.....	.....	.....	.....	.....	19.94	21.50	33.09	.....
11180	2.66	2.00	1.87	1.00	.72	8.67	8.00	9.39	.....	20.14	16.00
11251	6.14	7.00	6.08	5.00	1.00	6.37	6.00	7.37	.....	34.34	35.50

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling. (and Sampler when not the College.)
11062	Baugh & Sons Co., Baltimore, Md.	Soluble Alkaline Super-Phosphate.	Baltimore.....
11084	" " "	Soluble Ammoniated Alkaline.	Baltimore.....
11055	" " "	Special Potato Manure...	Baltimore.....
11039	" " "	Strawberry Mixture.....	Baltimore.....
11140	" " "	Sullivan's Sure Success	Monrovia .....
11044	" " "	Tomato Compound.....	Baltimore.....
11050	" " "	Vegetable Compound ...	Baltimore.....
11092	" " "	Wheat Fertilizer.....	Baltimore.....
11215	The Berg Co., Phila., Pa.	Raw Bone.....	Elkton.....
11197	Chas. E. Bond, Spencerville, Md.	Pure Raw Bone	Spencerville .....
11100	T. M. Bramble & Co., Cambridge, Md.	Special Tomato	Baltimore.....
11217	S. B. Brodbeck, Brodbeck, Pa.	Ruth's Dissolved Bone Phosphate.	Union Mills.....
11244	Brumfield & Foster, Colora, Md.	Hard Times Ammoniated Phosphate.	Colora.....
11147	Continental Comm'l Co., Baltimore, Md.	Ammoniated Bone.....	Walkersville
11243	" " "	Climax	Liberty Grove....
11223	" " "	High-Grade Soluble Phosphate.	Smithburg.....
11145	" " "	High-Grade Soluble Phosphate.	Mt. Airy .....
11252	" " "	Pennsylvania Special Mixture.	Chestertown.....
11146	" " "	Peerless Phosphate.....	Mt. Airy.....
11143	" " "	Potashed Bone.....	Mt. Airy.....
11144	" " "	Special Potato and Tomato.	Mt. Airy .. ..
11229	" " "	Superior Crop Grower...	Chestertown.....
11245	Henry Cope & Co., Lincoln University, Pa.	Ammoniated Bone Phos.	Colora.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11062	.....	.....	2.27	2.00	.90	10.68	10.00	11.58	.....	$10.99	$10.00
11084	1.28	.50	3.77	2.00	.77	8.00	8.00	8.77	11.00	16.56	12.95
11055	2.63	2.00	12.86	10.00	1.52	5.61	5.00	7.13	.....	28.29	22.00
11039	3.53	3.00	5.76	5.00	.82	8.06	7.00	8.88	10.00	26.51	23.70
11140	2.29	2.00	4.12	3.00	.97	7.88	8.00	8.85	.....	20.41	18.00
11044	2.22	2.00	2.46	2.00	1.70	8.17	8.00	9.87	.....	19.08	17.00
11050	1.96	1.00	3.02	2.00	1.48	8.50	8.00	9.98	.....	18.97	13.50
11092	2.73	2.00	2.08	2.00	1.10	9.31	8.00	10.41	11.00	21.39	18.20
11215	4.54	5.00	.....	.....	.....	.....	.....	23.73	22.00	31.41	.....
11197	4.95	4.50	.....	.....	.....	.....	.....	22.28	20.00	30.99	.....
11100	1.59	1.00	1.54	2.00	2.27	8.78	8.00	11.05	9.00	16.80	13.90
11217	.....	.....	.....	.....	1.15	14.83	14.00	15.98	.....	11.86	11.20
11244	1.42	1.00	1.16	1.00	1.25	8.46	8.00	9.71	9.00	15.09	12.90
11147	.67	.50	2.20	1.50	1.50	8.83	8.00	10.33	10.00	11.91	10.05
11243	1.62	2.00	3.46	2.00	2.27	9.37	9.00	11.64	11.50	19.41	19.00
11223	.....	.....	.....	.....	.82	14.91	14.00	15.73	.....	11.93	11.20
11145	.....	.....	.....	.....	.70	16.40	14.00	17.10	.....	13.12	11.20
11252	1.91	2.00	5.02	5.00	2.07	8.65	7.00	10.72	10.00	21.19	19·60
11146	1.18	1.00	1.79	1.50	1.82	8.99	8.00	10.81	10.00	15.64	13.80
11143	.....	.....	2.58	2.00	1.47	10.35	10.00	11.82	12.00	11.15	10.40
11144	1.65	2.00	3.79	2.25	1.85	8.87	7.50	10.72	10.00	19.18	17.75
11229	.....	.....	4.28	4.00	1.62	12.11	12.00	13.73	14.00	14.29	14.00
11245	1.14	1.00	2.28	2.00	2.27	9.13	8.00	11.40	.....	16.31	13.50

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
11211	Henry Cope & Co., Lincoln University, Pa.	Queen of Elk Valley Phosphate	Blue Ball
11246	" " "	Soluble Bone and Pot...	Colora
11235	Josiah Cope & Co., Lincoln University, Pa.	Acidulated Phosphate..	Baltimore
11096	" " "	Ammoniated Bone Phos.	Baltimore
11236	" " "	Soluble Bone and Pot...	Baltimore
11208	Wm. Davison & Co., Baltimore, Md.	"Bos" Ammoniated Super Phosphate.	Baltimore
11192	L. E. P. Dennis & Son, Crisfield, Md.	Fish and Potash Mixture No. 2.	Goldsboro
11191	" " "	Klondike Fish and Potash Mixture.	Henderson
11125	Dudley & Carpenter, Baltimore, Md.	California Tobacco Compound.	Baltimore
11182	" " "	Dissolved S. C. Rock ..	Baltimore
11129	" " "	Special Wheat Mixture.	Baltimore
11210	Edelen Bros., Baltimore, Md.	High Grade Tobacco Fertilizer.	Baltimore
11248	" " "	Special Tobacco Guano..	Baltimore
11230	T. W. Eliason, Chestertown, Md.	No. 1 Ammoniated Super Phosphate.	Chestertown
11115	Englar Bros. & Co., Linwood, Md.	No. 2 Ammoniated Bone Phosphate.	Linwood
11155	D. Englar, Jr., Medford, Md.	No. 3 Bone Phosphate..	Medford
11242	Eureka Fertilizer Co., Perryville, Md.	Corn and Potato Special.	Perryman
11232	W. S. Farmer & Co., Baltimore, Md.	B. & P. Phosphate.....	Baltimore
11110	" " "	Dissolved S. C. Bone....	Baltimore
11109	" " "	Harvest Queen Phos.....	Baltimore
11160	Farmers' Fertilizer Co., Westminster, Md.	Acid Phosphate.....	Westminster
11156	" " "	Carroll Bone Phosphate.	Westminster
11157	" " "	No. 3 Bone Phosphate..	Westminster

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11211	2.42	2.00	8.43	8.00	1.72	7.10	7.00	8.82	.....	$24.69	$22.00
11246	.....		2.26	2.00	1.17	10.27	10.00	11.44	.....	10.71	10.00
11235	.....	.....	....	.....	.52	14.73	14.00	15.25	.....	11.78	11.20
11096	1.36	1.00	3.24	3.00	.90	10.60	10.00	11.50	12.00	18.96	17.30
11236	.....	.....	2.10	2.00	.72	11.62	10.00	12.34	.....	11.54	10.00
11208	2.69	2.50	2.86	2.50	.80	11.50	8.00	12.30	11.00	24.10	20.45
11192	2.10	2.00	3.64	3.00	1.20	6.66	8.00	7.86	.....	18.13	18.00
11191	2.30	1.50	2.12	1.50	1.40	6.99	8.00	8.39	.....	17.72	14.75
11125	4.26	4.00	2.48	2.00	1.15	9.54	8.00	10.69	9.00	27.39	24.40
11182	.....	.....	....	.....	1.95	13.28	14.00	15.23	.....	10.62	11.20
11129	.....	.....	3.16	3.00	.60	11.89	12.00	12.49	.....	12.79	12.60
11210	4.60	4.00	4.73	4.00	1.20	8.80	6.00	10.00	.....	30.11	24.00
11248	2.83	3.00	2.50	3.00	.137	10.77	8.00	12.14	.....	23.73	21.50
11230	1 65	1.50	1.45	1.00	.72	13.27	9.00	13.99	11.50	20.79	16.25
11115	.97	1.75	2.32	1.80	1.32	11.57	11.90	12.89	.....	17.82	17.45
11155	1.53	1.25	2.03	2.00	1.60	11.08	9.50	12.68	11.00	19.11	16.48
11242	1.69	1.00	1.92	3.00	2.35	10.46	9.00	12.81	11.00	19.24	16.30
11232	.....	.....	2.24	2.00	.70	10.69	10.00	11.39	... ...	10.93	10.00
11110	.....	.....	.....	.....	.72	14.50	14.00	15.22	16.00	11.60	11.20
11109	1.57	1.25	3.34	3.00	.30	9.97	9.00	10.27	... .	18.93	16.38
11160	.....	.....	.....	.....	1.40	14.85	14.00	16.25	16.00	11.88	11.20
11156	.68	.50	2.28	2.00	.87	6.82	7.00	7.69	8.00	10.29	9.55
11157	1.53	1.50	2.65	3.00	.92	9.46	8.00	10.38	9.00	17.84	16.65

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling. (and Sampler when not the College.)
11158	Farmers' Fertilizer Co., Westminster, Md.	P. A. and P. Phosphate	Westminster... ...
11159	" " "	XX Bone Phosphate....	Westminster.....
11240	Farmers' and Planters' Co., Salisbury, Md.	Fish Mixture.....	Salisbury. .....
11227	" " "	General Crop Grower...	Snow Hill.... ....
11190	" " "	Special Fish Mixture...	Vienna.....
11189	" " "	Truckers' Mixture ..	Vienna.. .....
11119	J. W. Freeman, Great Mills, Md.	Crop Grower	Baltimore. .....
11177	" " "	No. 1 Tobacco Grower .	Baltimore. .....
11126	" " "	Special	Baltimore.....
11077	Griffith & Boyd, Baltimore, Md.	Accomac Trucker.	Baltimore.....
11170	" " "	Ammoniated Bone Phos.	Perry Hall .....
11171	" " "	Ammon. Soluble Bone...	Perry Hall .....
11016	" " "	Bone Phosphate	Long Green. ..... (S. M. Yoder)
11116	" " "	Cereal Bone.....	Union Bridge.....
11107	" " "	Farmers' Potato Manure	Baltimore.....
11059	" " "	Fish, Bone and Potash..	Baltimore.....
11074	" " "	High Grade Acid Phos.	Baltimore.....
11250	" " "	High Grade Acid Phos.	Cumberland.....
11117	" " "	Peerless Fertilizer.....	Union Bridge.....
11169	" " "	Pure Dissolved Animal Bone.	Perry Hall.....
11080	" " "	Royal Potash Guano....	Baltimore .....
11078	" " "	7% Guano..	Baltimore. .....
11148	" " "	Special Grain Grower...	Cumberland.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11158	....	.....	3.86	3.00	.67	10.46	11.00	11.13	.....	$12.36	$11.80
11159	1.30	1.00	2.83	3.00	.70	10 03	9.00	10.73	10.00	17.69	15.90
11240	2.87	3.00	2.17	2.00	1.62	8.16	7.00	9.78	.....	21.03	19.50
11227	1.06	1.00	2.50	2.00	1.07	11.74	10.00	12.81	.....	18.38	15.50
11190	2.30	2.50	5.06	5.00	1.57	7.90	8.00	9.47	.....	21.64	21.75
11189	2.34	3.50	4.12	4.00	1.45	8.88	8.00	10.33	.....	21.77	24.25
11119	1.38	1.00	1.34	1.00	1.20	8.24	8.00	9.44	9.50	14.89	13.10
11177	3.26	3.00	3.36	3.00	1.07	8.71	8.00	9.78	9.50	23.91	22.10
11126	1.31	1.00	1.72	2.00	.92	9.49	9.00	10.41	10.50	16.17	15.10
11077	4.74	5.00	7.55	7.00	3.10	6.07	6.00	9.17	.....	31.45	30.50
11170	2.18	2.00	2.52	2.00	1.40	8.58	8.00	9.98	9.00	19.29	17.40
11171	1.30	1.00	2.18	2.00	1.42	7.33	7.00	8.74	8.00	14.62	12.90
11016	2.35	2.00	2.77	2.00	1.60	8.45	8.00	10.05	9.00	20.09	17.40
11116	1.33	1.00	2.26	2.00	1.55	8.13	8.90	9.68	10.90	15.67	15.20
11107	1.19	1.00	8.87	9.00	.72	8.96	8.00	9.68	.....	22.29	20.50
11059	2.05	1.75	3.40	3.00	2.00	7.04	7.00	9.04	8.00	18.42	16.53
11074	.....	.....	.....	.....	1.42	13.64	1.400	15.06	15.00	10 91	11.20
11250	.. .	.....	....	.....	1.45	14.31	14.00	15.76	15.00	11.45	11.20
11117	.68	.35	2.57	2.00	1.50	8.10	8.00	9.60	9.00	11.73	9.83
11169	2.64	2.50	.....	.....	2.27	10.31	10.00	12 58	11.00	20.46	19.15
11080	1.19	1.00	3.92	4.00	1.57	8.53	8.00	10.10	9.00	17.25	15.90
11078	6.24	7.00	6.59	5.00	2.22	4 37	5.00	6.59	..	33.69	34.50
11148	.....	.....	2.11	2.00	1.57	10.30	10.00	11.87	11.00	10.66	10.20

No.	Name and address of Manufacturer.	Name of Fertilizer.	Place of Sampling, and Sampler, when not the College.)
11075	Griffith & Boyd, Baltimore, Md.	Spring Crop Grower.	Baltimore.
11031	" " "	Stable Manure Substitute.	Baltimore.
11079	" " "	Valley Fertilizer	Baltimore.
11216	" " "	XX Ammoniated Phos.	Union Mills.
11111	" " "	XX Potash Manure	Baltimore.
11133	Griffith & Turner Co., Baltimore, Md.	Ammoniated Alkaline Plant Food.	Baltimore.
11203	" " "	Dissolved Bone.	Baltimore.
11184	" " "	Soft Ground Bone	Baltimore.
11515	Hanover Fertilizer Co, Baltimore, Md.	Dissolved Bone Phos.	Manchester.
11518	" " "	Farmers Crop Winner.	Alesia.
11519	" " "	Klondyke Special.	Alesia
11516	" " "	Royal Bone and Potash.	Manchester.
11547	Hanway, Barnes & McComas, Bel Air, Md.	Ground Bone	Baltimore.
11332	" " "	H. & K. Special Mixture.	Baltimore.
11546	" " "	H. & K. Standard	Baltimore.
11560	S. M. Hess & Bro., Philadelphia, Pa.	Farmers Cereal King.	Childs
11562	" " "	Keystone Bone Phos.	Childs
11559	" " "	Potato & Truck Manure.	Childs
11557	" " "	Soluble Bone	Childs
11558	" " "	Soluble Bone & Potash.	Childs
11514	" " "	Special Corn Manure.	Union Mills.
11561	" " "	Wheat & Grass Manure.	Childs

No.	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11075	2.08	2.00	5.06	4.50	1.70	6.88	6.50	8.58	7.50	$19.90	$18.40
11031	3.51	3.50	4.93	4.00	2.47	5.90	5.00	8.37	.....	24.11	21.25
11079	.77	.50	2.78	3.00	1.60	8.13	8.00	9.73	9.00	12.20	11.35
11216	1.26	1.00	2.84	3.00	1.22	9.18	9.00	10.40	10.00	16.92	15.90
11111	.....	.....	4.52	5.00	1.25	10.78	10.00	12.03	11.00	13.39	13.20
11133	1.19	1.00	2.23	1.50	1.77	7.37	6.50	9.14	7.50	14.48	11.90
11203	2.39	2 00	.....	.....	2.72	10.34	9.00	13.06	10.00	19.80	16.40
11184	3.07	3.00	.....	.....	5.77	7.12	11.00	12.89	.....	20.18	21.50
11515	.....	.....	2.18	2.00	1.27	10.25	10.00	11.52	11.00	10.63	10.20
11518	.68	.50	1.52	1.50	1.60	7.33	7.00	8.93	8.00	10.08	9.05
11519	1.53	2.00	3.02	4.00	2.27	8.89	8.00	11.16	9.00	18.18	19.40
11516	.....	.....	1.29	1.00	1.15	9.84	9.00	10.99	10.00	9.39	8.40
11547	3.62	3 00	.....	.....	.....	.....	.....	25.39	22.00	33.33	.....
11332	1.40	1.00	2.02	2.00	.82	9.3	9.00	10.13	11.00	16.56	15.30
11546	2.05	2.00	3.34	3.00	1.50	8.72	8.00	10.22	.....	19.84	18.00
11560	.....	.....	4.94	3.00	1.35	11.54	12.00	12.89	13.00	14.44	12.80
11562	1.33	1.00	1.16	1.00	.82	8.97	8.00	9.79	.....	15.12	12.50
11559	2.81	3.00	6.05	6.00	.50	8.58	8.00	9.08	.....	24.67	24.50
11557	.....	.....	.....	.....	.85	15.13	14.00	15.98	.....	12.10	11.20
11558	.....	.....	2.26	2.00	.72	10.30	10.00	11.02	11.00	10.64	10.20
11514	1.31	1.00	2.26	2.00	1.07	15.12	8.00	16.19	9.00	22.40	13.90
11561	1.86	1.00	2.17	2.00	1.95	8.58	8.00	10 53	.....	18.04	13.50

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
11553	Home Fertilizer Chemical Works, Baltimore, Md.	Boykin's Cereal Wheat Fertilizer.	Baltimore.....
11453	" " "	Boykin's Dissolved Animal Bone.	Baltimore.....
11563	" " "	Boykin's Eagle Phosphate.	Baltimore.....
11496	" " "	High Grade Acid Phosphate.	Baltimore.....
11489	" " "	Yancey's Formula for Yellow Leaf Tobacco.	Baltimore.....
11480	Hubbard Fertilizer Co., Baltimore, Md.	Climax Bone Super Phosphate.	Greensboro.....
11488	" " "	Columbia Gem Phosphate.	Baltimore.....
11352	" " "	Farmers IXL Super Phosphate.	Baltimore.....
11493	" " "	Kainit.....	Baltimore.....
11376	" " "	Oriental Phosphate.....	Baltimore.....
11444	" " "	Royal Ensign.....	Baltimore.....
11351	" " "	Soluble Bone and Potash.	Baltimore.....
11442	" " "	Soluble Tennessee Phosphate.	Baltimore.....
11015	" " "	Special Formula.....	Goldsboro..... (Wm. E. Jones.)
11423	" " "	Standard Bone.....	Chase.....
11375	" " "	Truckers 5 per cent. Royal Seal Compound.	Baltimore.....
11333	" " "	Truckers 7 per cent. Royal Seal Compound.	Baltimore,.....
11481	" " "	Warranted Pure Raw Bone.	Greensboro.....
11322	M. P. Hubbard & Co., Baltimore, Md.	Bermuda 7 per cent. Guano.	Baltimore.....
11319	" " "	Celebrated Dissolved Bone Phosphate.	Baltimore.....
11341	" " "	Farmers Acme Fertilizer.	Baltimore,.....
11367	" " "	Farmers Old Economy Phosphate.	Baltimore.....
11486	" " "	Havana Special for Wheat and Grass.	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value Per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11553	2.40	2.00	2.76	2 00	1.27	8.97	8.00	10.24	9.00	$20.64	$17.40
11453	2.23	2.00	...	....	1.77	12.73	12 00	14.50	14.00	21.25	19.80
11563	1.84	1.00	1.52	1.00	1.45	10.08	8 00	11.53	9.00	18.62	12.90
11496	....	.....	.. .	.....	1.12	14.58	14.00	15.70	... .	11.66	11.20
11489	2.93	3.00	2.06	2.00	.80	9.09	8 00	9.89	.....	21.73	20.50
11480	.73	1.00	4.26	4 00	1.40	7.14	7.00	8.54	.....	14.52	14.50
11488	1.06	.50	1.50	1 00	1.45	7.53	8.00	8.98	.....	13.32	10.75
11352	2.15	2.00	2.30	2.00	.92	8.28	8.00	9.20	... ...	18.48	17.00
11493	.....	.....	11.55	12.00	....	.....	.....	....	.....	.....	.....
11376	1.53	1.00	1.84	1.00	1.57	8.21	8.00	9.78	.....	16.04	12.50
11444	2.71	3 00	4.45	4.00	.80	8.32	8.00	9.12	.....	22.58	22.50
11351	.....	... .	2.72	2.00	.20	10.29	10.00	10.49	.....	10.99	10.00
11442	.....	.....		.....	.37	14.62	14.00	14.99	.. ...	11.60	11.20
11015	2.32	2.00	11.55	10.00	.57	9.46	8.00	10.03	.....	29.36	25.00
11423	2.01	2.00	4.60	3.00	1.70	7.71	8 00	9.41	.....	20.03	18.00
11375	3.99	5.00	4.93	5.00	1.15	6.95	6 00	8.10	.....	26.31	28.50
11333	6.63	7.00	5.58	5 00	.92	6.37	6.00	7.29	.....	35.53	35.50
11481	3 82	3.50	.. .	...	...	....	.....	11.29	45 00	20.78	.....
11322	6.14	7.00	4.82	4.00	.87	9.40	7.00	10.27	.....	36.06	35.50
11319	1.79	2.00	2.72	2 00	1.00	9.43	9.00	10.43	.. ....	18.82	18.00
11341	2.27	2.00	2.23	2 00	1.00	8.44	7 00	9.44	.....	19.02	16.00
11367	.99	.50	1.56	1.50	1.55	8.58	8 00	10.13	10.00	12.20	10.05
11486	2.59	2.50	3.46	2.50	1.52	9.62	9.00	11.14	10.50	22.76	20.85

No	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
11513	M. P. Hubbard & Co., Baltimore, Md.	High Grade Soluble Phosphate.	Union Mills.....
11497	" " "	Soluble Bone and Potash Fertilizer.	Baltimore.....
11460	" " "	Special Potato and Tomato Fertilizer.	Baltimore. .....
11345	Wilbur W. Hubbard, Chestertown, Md,	Early Tomato Grower, Peerless.	Baltimore. .. ....
11065	" " "	Our Peerless Fertilizer	Barclay.....
11022	" " "	Special Mixture	Centreville ..... (Thos. L. Pratt.)
11344	" " "	Special Potato Manure.	Baltimore.....
11415	C. M. Keedy, Keedysville, Md.	Money Saving Phosphate.	Keedysville .....
11424	Lister's Agrl. Chemical Works, Newark, N. J.	Celebrated Ground Bone	Middle River .....
11327	" " "	Corn and Potato Fertilizer.	Baltimore ... .
11454	" " "	"G" Brand Fertilizer .	Baltimore.....
11343	" " "	Harvest Queen Phosphate.	Baltimore.....
11484	" " "	Potato and Corn Fertilizer No. 2.	Baltimore.....
11477	" " "	Potato Manure	Downes.....
11364	" " "	Pure Bone Super Phosphate of Lime.	Baltimore.....
11342	" " "	Special Crop Producer..	Baltimore.....
11425	" " "	Success.....	Middle River.....
11491	" " "	U. Super S. Phosphate..	Baltimore.....
11447	The Mapes Formula & Peruvian Guano Co, N. Y.	Vegetable Manure.....	Baltimore..... ...
11427	D. B. Martin Co., Philadelphia, Pa.	Abattoir Products Crop Producer.	White Marsh.....
11428	" " "	Abattoir Products Ground Bone.	White Marsh.....
11380	" " "	Acid Phosphate.	Baltimore.....
11506	" " "	Claremont Dissolved Bone and Potash.	Aberdeen.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O		PHOSPHORIC ACID					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11513	....	.....	.....	.....	1.37	14.82	14.00	16.19	.....	$11.86	$11.20
11497	.....	.....	2.60	2.00	.70	9.75	10.00	10.45	12.00	10.54	10.40
11460	1.98	2.00	5.13	5.00	1.07	8.60	7.00	9.67	.....	21.04	19.00
11345	3.92	3.00	4.84	4.00	1.32	8.17	6.00	9.49	.....	27.26	20.50
11065	2.56	2.00	4.64	4.00	.25	9.49	7.00	9.74	.....	23.19	18.00
11022	.53	.75	2.12	2.00	.50	8.99	7.00	9.49	.....	11.27	10.23
11344	4.43	3.00	4.83	5.00	1.35	8.54	6.00	9.89	.....	29.42	21.50
11415	1.38	1.50	3.82	2.00	2.07	9.29	9.00	11.36	.....	18.77	16.25
11424	3.51	3.25	.....	.. ....	7.25	8.72	.....	15.97	12.00	23.91	.....
11327	2.13	2.00	3.04	3.00	2.95	9.81	7.00	12.76	8.00	21.49	17.40
11454	1.36	1.00	4.42	4.00	1.42	8 16	8.00	9.58	.....	17.91	15.50
11343	2.05	1.50	2.22	2.00	3.00	9.70	9.00	12.70	.....	20.30	16.25
11484	2.15	2.00	4.10	4.00	.52	10.05	10.00	10.57	.....	21.89	21.00
11477	3.84	4.00	7.03	7.00	.62	8.97	8.00	9.59	.....	29.69	29.00
11364	3.53	3.00	2.67	2.00	3.12	9.75	9.00	12.87	.....	26.03	21.50
11342	1.36	1.00	1.24	1.00	1.17	8.69	7.00	9.86	.....	15.16	11.50
11425	1.69	1.50	2.18	2.00	2.55	9.83	9.00	12.38	.....	18.95	16.25
11491	1.43	1.25	2.82	2.00	1.92	9.40	8.00	11.32	.....	18.00	14.38
11447	6.21	6.00	7.52	6.00	2.10	6.75	6.00	8.85	7.00	36.85	33.40
11427	1.38	1.00	.....	.....	4.62	11.03	8.00	15.65	13.00	17.71	13.50
11428	2.49	2.00	....	.....	... .	....	.....	24.45	50.00	29.50	.....
11380	....	.....	.....	.....	.92	15.03	14.00	15.95	.....	12.02	11.20
11506	2.85	2.00	5.30	5.00	3.42	8.26	7.00	11.68	13.00	24.91	19.00

No.	Name and Address of Manufacturer.	Name of Fertilizer	Place of Sampling, (and Sampler, when not the College.)
11421	D. B. Martin Co., Philadelphia, Pa.	Complete Dissolved Organic Compound.	Taneytown
11432	" " "	Complete Vegetable Manure.	White Marsh
11430	" " "	Corn and Oats Special	White Marsh
11566	" " "	Crescent.	Leslie
11318	" " "	Crop Producer	Baltimore
11431	" " "	Early Truck and Vegetable Grower.	White Marsh
11337	" " "	Gilt Edge Potato Manure.	Baltimore,
11567	" " "	Ground Bone.	Leslie
11536	" " "	Ground Raw Bone	Queen Annes
11568	" " "	Pure Dissolvèd Animal Bone.	Leslie
11422	" " "	Pure Dissolved Animal Bone.	Taneytown
11523	" " "	Sure Grower	Frederick
11490	F. Maynard, Baltimore, Md.	High Grade Special Vegetator.	Baltimore.
11378	" " "	High Grade Truckers Pride.	Baltimore
11521	F. Mehring, Bruceville, Md.	Acid Phosphate.	Hampstead
11520	" " "	General Crop Grower	Hampstead
11522	" " "	Twenty-Six Dollar Phosphate.	Hampstead
11455	Miller Fertilizer Co., Baltimore, Md.	Ammoniated Dissolved Bone.	Baltimore
11463	" " "	Corn Fertilizer	Baltimore
11011	" " "	Dissolved Bone	Forest Hill (A. B. Twining.)
11009	" " "	Dried Ground Fish	Forest Hill (A. B. Twining.)
11449	" " "	Harvest Queen Phosphate.	Baltimore
11338	" " "	Hustler Phosphate	Baltimore

No.	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		TOTAL.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11421	1.47	1.25	2.05	2.00	3.82	8.73	9.00	12.55	16.00	$17.46	$18.18
11432	3.02	3.00	5.50	5.00	3.15	9.37	7.00	12.52	13.00	26.70	24.90
11430	1.79	2.00	1.86	2.00	4.30	9.39	8.00	13.69	16.00	19.24	20.20
11566	1.21	1.00	3.70	7.00	6.40	8.71	9.00	15.11	.....	19.21	19.50
11318	1.24	1.00	.. . .		6.22	9.26	8.00	15.50	13.00	16.11	13.50
11431	3.48	4.00	9.58	8.00	2.52	7.29	6.00	9.81	12.00	30.06	30.40
11337	3.44	3.00	8.63	10.00	2.85	7.63	7.00	10.48	13.00	29.44	29.90
11567	2.42	2.00	.. . .		.....	....	.....	23.99	50.00	29.05	
11536	4.93	4.00	.....	.....	.	... .	.....	20.69	21.00	33.49	.....
11568	2.10	2.00	.....	.....	2.65	11.50	12.00	14.15	14.00	19.91	19.80
11422	2.17	2.00	.....	.....	2.81	13.17	12.00	15.98	14.00	21.89	19.80
11523	.94	1.00	1.09	1.00	1.87	9.63	8.00	11.50	16.00	14.76	12.50
11490	2.29	2.00	2.87	2.00	1.37	9.92	8.00	11.29	9.50	21.36	17.60
11378	5.44	5.00	3.46	2.50	.62	6.96	5.00	7.58	7.00	29.71	25.80
11521	.	.... .	....	.. ....	2.05	15.07	14.00	17.12	15.00	12.06	11.20
11520	1.28	.50	1.45	1.00	2.50	12.84	11.00	15.34	12.00	19.77	14.15
11522	1.74	1.25	1.44	1.00	3.17	13.15	12.00	16.32	13.00	21.95	17.78
11455	2.01	2.00	2.16	2.00	1.20	9.06	8.00	10.26	9.50	18.74	17.60
11463	.96	1.00	3.01	3.00	1.52	7.63	7.00	9.15	8.50	14.61	14.10
11011	2 69	2.50	.....	.....	2.32	13.09	12.00	15.41	14.00	23.44	21.55
11009	9.57	10.00	.....	.. ....	.....	....	.....	6.75	.....	32.76	.....
11449	1.38	1.25	2.58	2.25	1.12	10.27	10.00	11.39	11.50	18.13	17.23
11338	1 42	1.00	1.01	1.00	.92	9.35	8.00	10.27	.....	15.70	12.50

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
11354	Miller Fertilizer Co., Baltimore, Md.	McAffee's Standard Ammoniated Bone Phos.	Baltimore
11013	" " "	Nitrate of Soda	Forest Hill. (A. B. Twining.)
11300	" " "	Potato and Vegetable Grower, No. 1.	Baltimore
11316	" " "	S. C. Rock	Baltimore
11010	" " "	S. C. Rock	Forest Hill (A. B. Twining.)
11443	" " "	Special Tobacc Grower	Baltimore
11340	" " "	Special Tomato Grower.	Baltimore
11326	" " "	Standard Phosphate	Baltimore
11012	" " "	Sulphate of Potash	Forest Hill. A. B. Twining.)
11502	" " "	W. G. Phosphate	Baltimore
11501	" " "	Wooldridge&Anderson's Battle-Ax Potato Mixt'e	Baltimore
11487	" " "	Wooldridge&Anderson's Faultless Am. Bone Phos	Baltimore
11500	" " "	Wooldridge&Anderson's Tiger Bone Stock Phos.	Baltimore
11406	Nassau Fertilizer Co., Baltimore, Md.	General Favorite	Frederick.
11404	" " "	Potash and Phosphate	Woodsboro
11573	" " "	Soluble Bone Phosphate	Baltimore
11474	Newport Fertilizer Co., Philadelphia, Pa.	Farmers Ammoniated Bone Phosphate.	Preston
11470	" " "	Fish Bone and Potash	Preston
11473	" " "	Gilt Edge Potato and Tobacco Manure.	Preston
11008	" " "	Gilt Edge Potato Manure.	Federalsburg (E. R. Cohee.)
11469	" " "	Grain & Grass Special.	Preston
11471	" " "	No. 1 Bone Phosphate	Preston
11569	" " "	Potato, Fruit and Truck Guano.	Port Deposit

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11354	2.23	2.00	1.14	1.50	1.30	9.32	8.00	10.62	.....	$18.79	$16.50
11013	19.23	18.50	.....	.....	.....	.....	.....	.....	.....	....	.....
11300	5.15	4.50	6.87	7.00	.70	8.28	8.00	8.98	.....	33.46	31.35
11316	.....	.....	....	.....	1.22	14.25	14.00	15.47	.....	11.40	11.20
11010	.....	.....	.....	.....	.55	16.04	14.00	16.59	.....	12.83	11.20
11443	1.67	2.00	4.64	4.00	.77	9.88	8.00	10.65	9.50	20.68	19.60
11340	2.30	2.00	2.00	2.00	1.02	8.44	8.00	9.46	9.50	18.90	17.60
11326	2.58	3.00	4.45	3.00	.75	8.99	8.00	9.74	10.00	22.77	22.30
11012	.....	.....	52.25	48.00	.....	.....	.....	.....	.....	.....	.....
11502	.80	.50	1.26	1.00	1.37	8.17	7.00	9.54	8.50	10.87	8.65
11501	.....	.....	2.48	3.00	1.90	12.20	12.00	14.10	13.00	12.62	12.80
11487	2.08	2.00	2.22	2.00	1.47	7.99	8.00	9.46	10.00	18.08	17.80
11500	1.08	1.00	5.06	5.00	.97	8.87	8.00	9.84	9.50	18.10	15.20
11406	1.26	1.00	4.20	4.00	.72	8.66	8.00	9.38	.....	17.56	15.50
11404	.....	.....	5.66	5.00	.65	9.43	10.00	10.08	.....	13.33	13.00
11573	.....	.....	.....	.....	.98	14.79	14.00	15.77	.....	11.83	11.20
11474	1.74	1.00	4.24	4.00	2.05	8.28	8.00	10.33	9.00	19.43	15.90
11470	1.88	2.00	6.03	5.00	2.42	7.36	7.00	9.78	8.00	20.94	19.40
11473	1.67	2.00	8.72	10.00	1.47	8.83	8.00	10.30	.... ..	23.99	25.00
11008	1.62	2.00	8.86	10.00	2.25	8.47	8.00	10.72	.....	23.90	25.00
11469	2.00	.50	4.20	2.00	2.57	7.29	8.00	9.86	9.00	19.52	12.15
11471	1.35	2.00	2.31	2.00	1.62	7.77	8.00	9.39	9.00	15.46	17.40
11569	1.06	1.00	5.37	6.00	1.75	6.16	6.00	7.91	.....	15.94	15.50

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
11537	Newport Fertilizer Co., Philadelphia, Pa.	Special Compound.....	Hillsboro.....
11024	" " "	Special Compound.....	Hobbs ..... (Geo. L. Jopp.)
11472	" " "	Truckers Joy.....	Preston .....
11321	J. B. Nichols & Son, Baltimore, Md.	Farmers Friend Guano,	Baltimore. .....
11446	G. Ober & Sons Co., Baltimore, Md.	Dis. Animal Bone.....	Baltimore. .....
11314	" " "	Dis. Bone Phosphate...	Baltimore.....
11386	" " "	Dis. Bone Phosphate & Potash.	Baltimore.....
11572	" " "	Farmers Mixture.....	Baltimore. .....
11306	" " "	Farmers Standard Ammoniated Phosphate.	Baltimore.....
11374	" " "	Fish and Potash Fertilizer.	Baltimore.....
11317	" " "	Fish Bone & Potash Mixture.	Baltimore.....
11451	" " "	Independent Ammoniated Super Phosphate.	Baltimore.....
11379	" " "	Kainit	White Marsh.....
11426	" " "	Princeton Complete Compound.	White Marsh.....
11429	" " "	Pure Bone Meal.....	White Marsh .....
11433	" " "	Special Plant Food.	Baltimore.....
11382	" " "	Special Plant Food. ...	Baltimore.....
11369	" " "	Standard Southern Vegetable Fertilizer.	Beltsville.....
11371	A. C. Ornsdorff, Washington, D. C.	S. C. Dissolved Bone.	Easton .....
11570	Oxford Fertilizer Co., Oxford Md.	Crab Guano.....	Easton .....
10921	" " "	Crab Guano.....	Cockeysville.....
11440	Patapsco Guano Co., Baltimore, Md.	Baltimore Soluble Phosphate.	Baltimore.....
11328	" " "	Coon Brand Guano...	

No	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11537	1.33	1.25	2.20	2.00	3.30	8.66	10.00	11.96	.. ....	$16.84	$16.38
11024	2.90	1.25	2.00	2.00	2.17	10.53	10.00	12.70	11.00	23.55	16.78
11472	4.31	5.00	5.18	6.00	2.12	7.13	8.00	9.25	.....	28.25	31.50
11321	3.91	4.00	6.00	4.00	.82	8.02	7.00	8.84	.....	28.04	25.00
11446	3.50	3.00	.....	.....	1.37	13.48	10.00	14.85	.....	26.28	20.50
11314	....	.....	.. .	.....	.10	15.45	14.00	15.55	.....	12.36	11.20
11386	.....	.....	3.20	2.00	1.55	11.72	11.00	13.27	.....	12.89	10.80
11572	1.23	1.00	1.85	2.00	.90	11.48	9.00	12.38	....	18.00	14.50
11306	2.35	2.00	2.47	2.00	.65	11.41	9.00	12.06	11.00	22.37	18.80
11374	2.47	2.00	1.48	2.00	5.72	11.79	9.00	17.51	.....	24.21	18.00
11317	3.33	3.25	3.66	3.50	.40	9.89	8.00	10.29	.....	25.37	22.88
11451	1.45	1.00	1.32	1.00	.85	9.80	8.00	10.65	.....	16.54	12.50
11379	.....	.....	13.55	12.00	....	.....	.....	.. .	.....	.....	.....
11426	2.44	2.00	3.84	4.00	.75	11.36	8.00	12.11	10.00	24.04	19.80
11429	2.63	3.00	....	.....	.....	.....	.....	26.97	22.00	32.99	.....
11433	1.67	2.00	5.25	5.00	1.27	11.78	9.00	13.05	10.50	23.39	21.60
11382	1.74	2.00	7.73	5.00	1.55	11.10	9.00	12.65	10.00	25.54	21.40
11369	6.41	7.00	6.22	5.00	.35	9.04	6.00	9.39	.....	37.84	35.50
11371	.....	.....	.....	.....	1.30	14.65	14.00	15.95	.....	11.72	11.20
11570	4.98	.....	.80	.....	.30	3.32	.....	3.62	.....	21.67	.....
10921	5.16	9.00	.69	.....	.53	2.78	.....	3.31	.....	21.74	.....
11440	.....	.....	2.26	2.00	.97	11.58	11.00	12.55	.....	11.71	10.80
11328	1.28	1.00	3.01	3.00	1.12	9.41	9.00	10.53	.....	17.35	15.50

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
11021	Patapsco Guano Co., Baltimore, Md.	Coon Brand Guano.....	Federalsburg..... (E. E. Goslin.)
11353	" " "	Corn & Tomato Fertilizer.	Baltimore. ....
11007	" " "	Dissolved Raw Bone...	Cambridge..... (T. H'y Hopkins.)
11363	" " "	Early Trucker for Quick Growth.	Baltimore.....
11485	" " "	Fish Guano	Baltimore.....
11495	" " "	Genuine German Kainit.	Baltimore.....
11005	" " "	Ground Fish.....	Cambridge ..... (T. H'y Hopkins.)
11462	" " "	H. G. Bone & Potash.	Baltimore.....
11531	" " "	Pure Dissolved S. C. Bone.	Snow Hill.....
11441	" " "	Sea Gull.....	Cockeysville .....
11414	" " "	Sol. Bone and Potash...	Frostburg. .....
11413	" " "	Spec. Wheat Compound.	Frostburg .....
11439	" " "	Tobacco & Potato	Cockeysville.....
11372	Pearre & Clemson, Union Bridge, Md.	Farmers Choice	Union Bridge.....
11411	Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Dis. Bone Phosphate	Cumberland .....
11544	" " "	Essential Tobacco Compound,	Baltimore. .. ....
11530	" " "	Farmers High Grade Bone & Potash.	Snow Hill.....
11409	" " "	High Grade S. C. Rock.	Cumberland .....
11308	" " "	Insula Guano	Baltimore.....
11311	" " "	Leyerings I. X. L. Crop Grower.	Baltimore.....
11452	" " "	Leverings Standard.....	Baltimore.....
11385	" " "	Mt. Airy Garden & Truck.	Baltimore.....
11307	" " "	Piedmont Guano..... .	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11021	1.26	1.00	3.08	3.00	1.05	9.48	9.00	10.53	.....	$17.39	$15.50
11353	2.05	1.50	2.19	2.00	1.02	9.73	9.00	10.75	.....	19.51	16.25
11007	2.32	2.50	.....	.....	2.42	11.82	12.00	14.24	.....	20.91	20.75
11363	4.81	5.00	5.04	5.00	.85	8.56	7.00	9.41	.....	30.78	29.50
11485	2.13	2.00	2.48	2.00	1.62	8.28	6.00	9.90	.....	18.87	15.00
11495	.....	.....	12.60	12.00	.....	.....	.....	.....	.....	.....	.....
11005	10.50	10.00	.....	.....	.....	.....	.....	6.60	.....	35.46	30.00
11462	.....	.....	5.51	5.00	.45	10.48	11.00	10.93	.....	13.98	13.80
11531	.....	.....	.....	.....	.80	14.59	14.00	15.39	.....	11.67	11.20
11441	1.38	1.00	1.09	1.00	2.07	8.47	8.00	10.54	.....	15.22	12.50
11414	.....	.....	1.92	2.00	.57	11.46	10.00	12.03	11.00	11.20	10.20
11413	2.63	2.50	4.06	2.50	3.17	10.53	9.00	13.70	14.00	25.07	22.25
11439	2.23	2.00	4.37	4.00	1.05	7.77	8.00	8.82	.....	20.37	19.00
11372	1.07	1.00	2.56	1.75	1.22	9.64	9.00	10.86	.....	16.44	14.25
11411	.....	.....	1.92	1.00	.57	11.58	10.00	12.15	.....	11.29	9.00
11544	2.18	2.00	2.88	2.00	.92	8.46	8.00	9.38	.....	19.34	17.00
11530	.....	.....	2.73	2.00	.55	10.25	10.00	10.80	.....	11.04	10.00
11409	.....	.....	.....	.....	.30	15.11	14.00	15.41	.....	12.09	11.20
11308	.56	.37	1.60	1.00	.95	8.01	7.00	8.96	.....	10.16	7.90
11311	.....	.....	4.12	3.00	.35	9.11	10.00	9.46	12.00	11.48	11.40
11452	1.82	2.00	3.34	3.00	.77	7.83	8.00	8.60	.....	17.85	18.00
11385	3.99	4.00	3.04	3.00	.85	9.01	8.00	9.86	.....	26.36	25.00
11307	1.82	2.00	2.42	2.00	.40	8.37	8.00	8.77	.....	17.32	17.00

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling. (and Sampler when not the College.)
11475	Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont High-Grade S. C. Bone.	Greensboro
11524	" " "	Piedmont, Pa., Potato Producer.	Hagerstown
11309	" " "	Piedmont Potato Producer.	Baltimore
11387	" " "	Piedmont S. C. Bone	Baltimore
11313	" " "	Piedmont Wheat Compound.	Baltimore
11412	" " "	Royal Ammoniated Bone and Potash.	Cumberland
11408	" " "	Soluble Bone and Potash	Cumberland
11305	Pollock Fertilizer Co., Baltimore, Md.	Accomac Truck	Baltimore
11325	" " "	Ammoniated Bone Phos.	Baltimore
11002	" " "	Ammoniated Bone Phos.	Preston (Z. T. Reynolds.)
11339	" " "	Dissolved S. C. Bone	Baltimore
11448	" " "	Early Truck Guano	Baltimore
11437	" " "	Potato and Tobacco	Catonsville
11320	" " "	S. C. Bone Phosphate	Baltimore
11310	" " "	Special Potato and Tobacco.	Baltimore
11331	" " "	Superior Corn and Tomato.	Baltimore
11438	" " "	Victor Bone Phosphate	Catonsville
11388	Ramsburg Fertilizer Co., Frederick, Md.	Alkaline Phosphate	Etchison
11397	" " "	Ammoniated Bone Phos.	Silver Spring
11395	" " "	Corn and Potato	Silver Spring
11400	" " "	Dissolved Bone Super Phosphate.	Myersville
11396	" " "	Excelsior Plant Food	Silver Spring
11403	" " "	Hood's Special Mixture for Grain and Grass.	Mt. Airy

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11475	.....	.....	.....	.....	.67	15.92	14.00	16.59	.....	$12.74	$11.20
11524	1.94	2.00	11.10	10.00	.62	6.25	6.00	6.87	.....	24.39	23.00
11309	2.73	3.00	5.69	6.00	.47	6.66	5.00	7.13	.....	22.10	21.50
11387	.....	.....	.....	.....	.25	13.29	14.00	13.54	.....	10.63	11.20
11313	.....	.....	4.29	5.00	.22	11.25	12.00	11.47	.....	13.33	14.60
11412	1.40	1.30	3.20	3.00	.70	6.88	6.00	7.58	.....	15.26	13.55
11408	.....	.....	2.27	2.00	.55	8.40	8.00	8.95	.....	9.10	8.40
11305	4.81	5.00	5.18	5.00	1.67	8.09	7.00	9.76	8.00	30.78	29.90
11325	2.17	2.00	.92	2.00	2.42	7.21	8.00	9.63	9.00	16.70	17.40
11002	2.20	2.00	3.33	2.00	1.77	8.74	8.00	10.51	9.00	20.48	17.40
11339	.....	.....	.....	.....	1.25	14.02	14.00	15.27	15.00	11.22	11.20
11448	7.67	8.00	4.13	5.00	.95	7.20	7.00	8.15	8.00	38.56	40.00
11437	2.35	2.00	4.41	4.00	2.57	8.53	8.00	11.10	9.00	22.20	19.40
11320	.....	.....	.....	.....	1.00	14.90	14.00	15.90	15.00	11.92	11.20
11310	2.24	2.00	4.02	4.00	2.60	8.88	8.00	11.48	9.00	21.78	19.40
11331	1.16	1.00	1.19	2.00	2.85	8.83	8.00	11.68	9.00	15.22	13.90
11438	.....	.....	1.14	1.00	4.10	9.03	9.00	13.13	10.00	9.18	8.40
11388	.....	.....	2.31	2.00	2.25	12.70	10.00	14.95	12.00	12.92	10.40
11397	1.37	1.00	2.08	2.00	2.32	10.09	10.00	12.41	12.00	17.90	16.30
11395	1.48	1.50	1.74	2.00	1.52	11.14	9.00	12.66	11.00	18.67	17.05
11400	.....	.....	.....	.....	1.40	15.33	14.00	16.73	16.00	12.26	11.20
11396	1.88	2.00	1.48	2.00	1.12	11.90	9.00	13.02	.....	20.41	18.00
11403	1.30	1.00	1.92	2.00	2.12	10.77	9.00	12.89	.....	18.09	14.50

No	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
11398	Ramsburg Fertilizer Co., Frederick, Md.	Old Virginia Compound.	Silver Spring.....
11334	Rasin-Monumental Co., Baltimore, Md.	Monumental Acid Phosphate.	Baltimore.....
11402	" " "	Rasin's Acid Phosphate..	Monrovia..... ....
11312	" " "	Rasin's Ammoniated Super Phosphate.	Baltimore. .....
11335	" " "	Arundell Complete	Baltimore. .....
11329	" " "	Rasin's Bone and Potash.	Baltimore.....
11399	" " "	Rasin's Dissolved Bone.	Silver Spring.....
11532	" " "	Early Trucker	Snow Hill..... ...
11392	" " "	Empire Guano	Germantown.....
11479	" " "	Rasin's Gold Standard Fertilizer.	Greensboro.. .....
11394	" " "	Ground Bone.....	Silver Spring.. ...
11303	" " "	H. G. Vegetable Manure.	Baltimore.....
11336	" " "	Rasin's I. X. L. Fertilizer.	Baltimore.....
11499	" " "	Kainit	Baltimore.....
11393	" " "	Potato Compound.....	Sykesville.....
11301	" " "	Special Fish and Potash	Baltimore.....
11315	" " "	Special Formula.....	Baltimore. .....
11525	" " "	Rasin's Special Mixture.	Hagerstown.....
11539	" " "	Standard Tomato Grower.	Sudlersville.....
11302	" " "	Rasin's Truck Guano	Baltimore. .....
11450	" " "	XXX Fertilizer.....	Baltimore.....
11504	Henry Reckord M'f'g. Co., Bel Air, Md.	Raw Bone.....	Aberdeen.....
11366	" " "	Special Compound.....	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11398	1.47	1.50	1.69	2.00	1.57	11.41	9.00	12.98	11.00	$18.88	$17.05
11334	.....	.....	.....	.....	1.02	14.87	14.00	15.89	.....	11.90	11.20
11402	.....	.....	.....	.....	1.62	14.87	14.00	16.49	.....	11.90	11.20
11312	1.28	1.00	3.04	1.00	1.47	7.21	8.00	8.68	.....	15.32	12.50
11335	2.15	2.00	1.06	2.00	1.85	7.42	8.00	9.27	.....	16.75	17.00
11329	.....	.....	2.00	2.00	1.25	10.20	10.00	11.45	.....	10.41	10.00
11399	2.39	2.00	.....	.....	3.32	11.21	10.00	14.53	.....	20.91	17.00
11532	2.87	5.00	3.75	5.00	2.00	7.67	6.00	9.67	.....	22.27	28.50
11392	2.10	2.00	.82	2.00	1.62	8.02	8.00	9.64	.....	16.84	17.00
11479	2.44	3.00	3.84	6.00	1.57	6.64	6.00	8.21	.....	19.65	22.50
11394	3.15	3.00	....	.....	.....	.....	.....	23.76	45.00	31.38	.....
11303	3.27	3.00	10.02	8.00	1.55	7.14	8.00	8.69	... .	29.23	26.50
11336	1.28	1.00	3.54	3.00	2.00	8.64	9.00	10.64	.....	17.46	15.50
11499	.....	.....	12.40	12.00	.....	.....	.....	....	.....	.....	.....
11393	1.62	1.00	3.68	4.00	1.57	8.05	6.00	9.62	.....	18.03	13.50
11301	2.35	2.00	4.02	3.00	3.00	5.93	6.00	8.93	.....	19.38	16.00
11315	.....	... ...	3.40	3.00	1.10	9.22	6.00	10.32	.....	11.00	7.80
11525	... .	.....	5.20	4.00	2.47	9.48	9.00	11.95	.....	13.27	11.20
11539	1.35	1.00	4.30	3.00	1.42	7.46	8.00	8.88	.....	17.06	14.50
11302	3.84	4.00	2.31	2.00	2.60	7.59	7.00	10.19	.....	24.38	23.00
11450	2.08	2.00	3.62	5.00	1.77	8.10	8.00	9.87	.....	19.71	20.00
11504	4.52	5.29	....	.....	.....	.....	.....	20.42	20.38	31.17	.....
11366	2.18	2.00	3.17	2.00	1.77	10.03	9.00	11.80	.....	21.54	18.00

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
11435	W. E. Robinson, Bel Air, Md.	Potato	Bradshaw
11434	" " "	Vegetable	Bradshaw
11459	Isaac Robinson, Baltimore, Md.	Peerless Phosphate	Baltimore
11466	" " "	Pa. Special Mixture	Baltimore
11457	" " "	Potashed Bone	Baltimore
11458	" " "	Special Potato & Tomato Fertilizer	Baltimore
11483	" " "	Superior Crop Grower	Baltimore
11548	Chas. Schaeffer, Westminister, Md.	Acid Phosphate	Baltimore
11420	" " "	Big Gun	Westminister
11416	" " "	Governor Ammoniated & Concentrated Phos.	Westminister
11418	" " "	Leader	Westminister
11419	" " "	P. A. P	Westminister
11417	" " "	Super A	Westminister
11505	Scott Fertilizer Co., Elkton, Md.	Bush River Compound	Aberdeen
11507	" " "	Corn & Oats Grower	Childs
11508	" " "	Potato & Truck Special	Childs
11511	" " "	Pure Ground Raw Bone	Childs
11510	" " "	Sure Growth Super Phosphate.	Childs
11509	" " "	Tip Top & Potash	Childs
11555	Smith, Rouse & Webster, Bel Air, Md.	Dissolved Bone	Perryman
11554	" " "	Special Formula	Perryman
11360	Southern Fertilizer Co., York, Pa.	Ammoniated Dissolved Bone.	Baltimore
11358	" " "	Dissolved Bone Phos	Baltimore

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11435	1.67	1.50	3.70	5.00	2.37	7.12	6.00	9.49	....	$17.62	$16.25
11434	1.67	2.00	2.50	2.00	1.85	7.58	9.00	9.43	.....	16.67	18.00
11459	.92	1.00	2.28	1.50	2.00	8.57	8.00	10.57	10.00	14.87	13.80
11466	1.54	2.00	3.08	5.00	2.95	8.98	7.00	11.93	10.00	18.63	19.60
11457	.92	2.00	2.48	2.00	1.70	9.03	10.00	10.73	.....	15.41	19.00
11458	2.13	2.00	2.76	2.25	2.02	8.55	7.50	10.57	10.00	19.58	17.75
11483	.....	.....	4.61	4.00	1.52	12.05	12.00	13.57	14.00	14.55	14.00
11548	....	.....	.....	.....	.57	15.03	14.00	15.60	.. ...	12.02	11.20
11420	2.03	2.00	2.32	2.00	1.35	11.48	10.00	13.33	.....	21.65	19.00
11416	1.32	1.50	2.54	2.50	1.70	10.42	9.00	12.12	.....	18.26	16.75
11418	1.04	1.00	1.88	1.50	2.17	8.85	8.00	11.02	.....	15.24	13.00
11419	.....	.....	2.61	2.00	1.30	10.42	10.00	11.72	.....	11.21	10.00
11417	1.04	.75	1.58	1.00	1.27	9.86	8.00	11.13	9.00	15.59	12.03
11505	4.11	4.00	7.03	7.00	1.57	6.77	7.00	8.34	.....	28.82	28.00
11507	.77	.50	2.33	2.00	1.50	9.36	8.00	10.86	9.00	12.82	10.35
11508	2.34	2.00	6.35	5.00	2.87	7.45	7.00	10.32	.....	23.14	19.00
11511	5.00	4.00	.....	.....	.....	.....	.....	21.92	22.00	32.41	.....
11510	2.27	2.00	2.50	2.50	2.70	10.03	10.00	12.73	12.00	21.56	20.30
11509	....	.....	2.54	2.00	.80	12.23	11.00	13.03	.....	12.48	10.80
11555	2.52	2.50	.....	.....	2.02	10.84	10.00	12.86	.. ...	20.47	18.75
11554	2.08	2.00	2.19	2.00	.75	9.38	9.00	10.13	.....	19.15	18.00
11360	2.58	2.00	2.79	2.50	.80	10.02	10.00	10.82	... ...	22.16	19.50
11358	.....	.....	.....	.....	.60	14.52	14.00	15.12	.....	11.62	11.20

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
11467	Southern Fertilizer Co., York, Pa.	General Crop Grower....	Williston .....
11359	" " "	Special Potato Grower...	Baltimore.....
11529	J. W. Stonebraker, Hagerstown, Md.	Bone Meal	Hagerstown.....
11356	W. H. Street & Co., Fallston, Md.	Ammoniated Dis. Bone...	Baltimore.....
11355	" " "	Special Crop Grower....	Baltimore.....
11324	H. S. Taveau & Co., Baltimore, Md.	Allerton.....	Baltimore.....
11384	" " "	Bone Compound.....	Baltimore.....
11456	" " "	Dis. S. C. Bone.....	Baltimore.....
11323	" " "	Pride of Maryland	Baltimore .. ..
11383	" " "	Special Compound	Baltimore.....
11498	" " "	Special Compound No. 2.	Baltimore.....
11527	D. A. Thomas, Hagerstown, Md.	Bone Mixture	Hagerstown .....
11528	" " "	Dissolved Bone Phos...	Hagerstown .....
11526	" " "	Excelsior Fertilizer.....	Hagerstown .....
11533	W. B. Tilghman & Co., Salisbury, Md	Fish Bone & Potash....	Berlin.....
11549	" " "	Mixture B.....	Salisbury..... .
11534	" " "	Standard Fish Mixture	Berlin.....
11550	E. S. Truitt & Co., Salisbury, Md.	Bone Tankage & Fish..	Salisbury..... ....
11552	" " "	High Grade Trucker .	Salisbury.....
11551	" " "	X. X. Fish Mixture.....	Salisbury.....
11542	Turner & Son, Betterton, Md.	Farmers Truck Guano...	Still Pond.....
11361	Tuscarora Fertilizer Co., Baltimore, Md.	Acid Phosphate	Baltimore.....
11381	" " "	Ammoniated Phosphate.	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11467	1.31	.50	2.14	2.00	1.37	9.27	8.00	10.64	.....	$ 16.55	$ 11.75
11359	1.67	1.50	4.08	4.00	1.07	7.81	8.00	8.88	.....	18.17	16.38
11529	4.91	4.50	....	.....	....	.....	....	19.99	20.00	33.06	.....
11356	1.80	1.50	1.98	2.00	1.95	9.09	9.00	11.04	10.50	18.15	16.85
11355	1.23	1.00	1.44	1.00	1.60	7.87	8.00	9.47	9.50	14.26	13.10
11324	2.56	2.50	2.69	2.50	1.02	9.44	9.00	10.46	.....	21.50	20.25
11384	1.30	1.00	2.20	2.00	.87	9.43	9.00	10.30	.....	16.53	14.50
11456	.....	.....	....	.....	2.20	13.26	14.00	15.46	.....	10.61	11.20
11323	1.57	1.25	3.16	2.50	.97	9.29	10.00	10.26	.....	18.34	16.88
11383	2.39	2.00	3.05	2.50	1.00	9.56	10.00	10.56	.....	21.38	19.50
11498	2.42	2.00	2.33	2.00	1.67	8.94	8.00	10.61	.....	20.41	17.00
11527	2.18	2.00	3.58	2.00	1.32	10.20	10.00	11.52	.....	21.94	19.00
11528	.....	.....	....	.....	1.42	15.07	14.00	16.49	.....	12.06	11.20
11526	2.01	2.00	4.72	4.50	1.47	8.64	8.00	10.11	.....	20.99	19.50
11533	1.14	1.00	1.72	2.00	2.05	10.25	10.00	12.30	.....	16.78	15.50
11549	3.82	4.00	3.65	3.00	1.67	8.44	8.00	10.11	... .	26.13	25.00
11534	3.05	3.00	3.17	2.00	2.12	8.85	7.00	10.97	.....	23.55	19.50
11550	1.76	2.00	2.34	2.00	1.15	9.63	7.00	10.78	9.00	18.59	16.80
11552	3.99	4.00	5.38	4.00	1.06	8.03	7.00	9.09	9.00	27.80	25.80
11551	3.09	3.00	2.64	2.00	1.30	8.19	8.00	9.49	10.00	22.17	21.30
11542	1.38	1.00	2.44	2.00	1.57	8.53	8.00	10.10	.....	16.43	13.50
11361	....	.....	....	.....	.25	14.65	14.00	14.90	.....	11.72	11.20
11381	2.32	1.00	2.74	1.00	.85	7.62	7.00	8.47	.....	18.82	11.50

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling. and Sampler, when not the College.
11476	Tuscarora Fertilizer Co., Baltimore, Md.	Animal Bone	Downes
11465	" " "	Big Four	Baltimore
11461	" " "	Bone & Potash	Baltimore
11482	" " "	Genuine Kainit	Baltimore
11362	" " "	H. G. Potato	Baltimore
11540	" " "	Phosphate	Kennedyville
11541	" " "	Royal Am. Bone	Kennedyville
11556	" " "	Special Mixture	Blue Ball
11478	" " "	Trucker	Ridgely
11407	J. Tyson & Son, Frederick, Md.	Ammon. Super Phos	Frederick
11389	Virginia-Carolina Chemical Co., Richmond Va.	Acid Phosphate	Germantown
11391	" " "	Dissolved Bone	Germantown
11543	" " "	Excelsior Am. Phos	Baltimore
11545	" " "	Spec. Tomato Fertilizer	Baltimore
11304	" " "	Special Union Super Phosphate.	Baltimore
11390	" " "	Standard Bone & Potash	Germantown
11571	S. L. Webster & Son, Cambridge, Md.	Ammo. Bone Phosphate No. 1.	Baltimore
11492	" " "	Ammo. Bone Phosphate No. 2.	Baltimore
11564	" " "	Fish Mixture	Two Johns
11357	Harry W. Whistler, Fountain Grove, Md.	Crop Grower	Baltimore
11350	R. A. Wooldridge Co., Baltimore, Md.	Champion Giant	Baltimore
11348	" " "	Chieftain	Baltimore
11370	" " "	Florida Acid Phosphate.	Baltimore

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11476	3.85	3.00	..	.....	....	.....	.....	24.52	24.00	$32.19	.....
11465	2.01	2.00	4.69	4.00	.97	8.03	7.00	9.00	.....	20.15	18.00
11461	....	.....	2.24	2.00	.57	10.72	10.00	11.29	.....	10.93	10.00
11482	....	.....	13.70	12.00	.....	.. .	.....	....	.....		.....
11362	2.11	2.00	10.44	10.00	.62	8.95	8.00	9.57	.....	27.03	25.00
11540	.	.....	5.87	5.00	.42	10.92	10.00	11.34	.....	14.69	13.00
11541	1.06	1.00	4.26	4.00	.97	8.73	8.00	9.70	.....	17.09	15.50
11556	1.33	1.00	6.91	7.00	.60	10.16	9.00	10.76	.....	21.97	19.50
11478	4.16	5.00	8.54	7.00	.45	8.51	8.00	8.96	.... ..	31.79	32.50
11407	1.55	1.00	1.02	2.00	1.95	8.50	12.00	10.45	.....	15.73	17.50
11389	.....	.....	.....	.....	1.29	14.02	14.00	15.31	.....	11.21	11.20
11391	2.40	2.00	.....	.....	2.37	10.41	10.00	12.78	.....	19.76	18.50
11543	2.02	2.00	1.96	2.00	3.72	5.96	8.00	9.68	.....	16.48	17.00
11545	1.31	1.00	4.62	3.00	1.72	8.69	8.00	10.41	.....	18.59	14.50
11304	.....	.....	3.53	3.00	2.85	5.84	6.00	8.69	.....	8.77	7.80
11390	.....	.....	1.60	2.00	1.42	10.62	10.00	12.04	.....	10.38	10.00
11571	2.29	2.50	4.84	2.50	1.90	9.55	10.00	11.45	12.00	23.17	22.05
11492	2.13	2.00	2.04	2.00	1.35	9.00	8.00	10.35	9.50	19.04	17.60
11564	1.55	1.50	2.06	2.00	1.80	10.00	8.00	11.80	9.50	18.21	15.85
11357	1.62	1.50	2.97	2.00	.62	10.21	8.00	10.83	.....	19.10	15.25
11350	1.28	1.00	2.18	2.00	.75	9.65	9.00	10.40	11.00	16.61	15.30
11348	2.25	2.00	2.01	2.00	1.80	9.29	8.00	11.09	9.50	19.90	17.60
11370	.....	.....	.....	.....	.75	14.98	14.00	15.73	.. ...	11.98	11.20

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
11468	R. A. Wooldridge Co., Baltimore, Md.	German Potato Mixture.	Williston.. .....
11373	" " "	Golden Crown	Baltimore.....
11346	" " "	Liberty Bell.....	Baltimore.....
11349	" " "	Special Potato.....	Baltimore.....
11464	" " "	Sweepstakes...	Baltimore.....
11347	" " "	Triumph Phosphate ..	Baltimore.....
11565	" " "	Tuckahoe Bone Meal...	Singerly.....

No.	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
11468	....	.....	2.02	2.00	.82	10.42	10.00	11.24	.....	$10.52	$10.00
11373	6.03	7.00	5.38	5.00	.77	7.67	7.00	8.44	8.00	34.47	36.90
11346	....	.....	3.02	3.00	.52	11.78	12.00	12.30	13.00	12.54	12.80
11349	2.13	2.00	4.08	5.00	1.40	9.30	9.00	10.70	9.50	21.40	20.60
11464	2.63	3.00	7.22	8.00	1.30	8.57	7.00	9.87	.....	25.52	25.50
11347	1.76	1.50	4.32	4.00	1.07	8.21	8.00	9.28	10.00	19.12	17.80
11565	3.04	3.00	.....	.....	.. .	.....	.....	16.59	15.00	23.20	.....

Table Showing Mechanical Analysis of Ground Bone.

(The Chemical Analysis is Given in the Preceding Table.)

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Fine Less than 1-50 inch.	Fine-Medium 1-25 to 1-50 inch.	Medium 1-25 to 1-12 inch.	Coarse Larger than 1-12 inch
11104	American Agricultural Chemical Co., New York.	Pure Ground Bone.....	48	31	21	0
11153	Armour Fertz. Works, Baltimore, Md.	Bone Meal	55	30	15	0
11247	Baugh & Sons Co., Baltimore, Md.	Raw Bone Meal	57	41	2	0
11215	The Berg Co., Philadelphia, Pa.	Raw Bone.....	44	22	19	15
11197	Chas. E. Bond, Spencerville, Md.	Pure Raw Bone..... ...	34	34	28	0
11547	Hanway, Barnes & McComas, Bel Air, Md.	Ground Bone.....	60	27	13	0
11481	Hubbard Fertilizer Co., Baltimore, Md.	Warranted Pure Raw Bone.	50	29	20	1
11567	D. B. Martin Co., Baltimore, Md.	Ground Bone.....	64	24	11	1
11394	Rasin-Monumental Co,, Baltimore, Md.	Ground Bone.....	64	31	5	0
11504	Henry Record Mfg. Co., Bel Air Md.	Raw Bone....	47	46	7	0
11511	Scott Fertilizer Co., Elkton, Md.	Pure Ground Raw Bone.....	37	40	22	1
11529	J. W. Stonebraker, Hagerstown, Md.	Bone Meal.....	58	40	2	0

Shall The Fertilizer Inspection Law Be Amended?

The present fertilizer inspection law was enacted in 1894, and has been in successful operation since that time. In 1900, Section 6 was amended; but this only slightly changed the manner of describing samples sent in by farmers. It has been the policy of this department not to be continually tinkering with the law, or to recommend changes without due notice, and allowing ample time for all who might be interested to let themselves be heard. Naturally, we may never expect to have any inspection law that will be *perfectly* satisfactory to *all*. We have received so many requests to recommend changes in the law, that we think it but proper to mention them briefly here, requesting that our constituents write us their views in regard to the matter, so that we may be in readiness to present these views in proper form to the appropriate committees, in case there seems to be a general desire for any changes.

(1) The principal change that has been urged by a considerable number is in regard to the method of providing a revenue for conducting the inspection. At present, a special license fee for fifteen dollars per brand is required, which provides a special fund for this purpose. This fee is at times a hardship upon the smaller manufacturers, who claim that the fee should be in proportion to the amount sold,—say, one cent, for each 100-pound bag. Under this system the inspection would be more expensive, because of an increased number of brands.

(2) Our present law wisely requires the guaranteed analysis of fertilizers to be printed on the bags, and prohibits maximum, or sliding scale, guarantee; as, "Ammonia, 1 to 3 per cent," which is calculated to deceive the purchaser, as such a guarantee means no more than "Ammonia, 1 per cent," (usually less). The use of "Bone Phosphate," Sulfate of Potash," and "Sulfate of Ammonia," in the guarantee, are not specifically prohibited, and is at least as objectionable and misleading as the sliding scale, being the required analysis stated over again in another form, requiring larger numbers intended to mislead. It should be unlawful to guarantee any ingredient more than once on the bag.

(3) Decimal fractions are objectionable, because they are liable to deceive. .5 per cent. (meaning ½ per cent.) printed on a fertilizer bag is apt to be mistaken for 5 per cent. There is little, if any, need or excuse for fractions in the guarantee. For example, if one does not need as much as 1 per cent. of ammonia in his fertilizer, he probably needs none at all.

(4) Some maintain that analyses should not be published when they overrun the guarantees, but instead publish the guaranteed analysis with the statement that the sample has been found "up to guarantee". This method is in use in at least one State. It is intended to prevent the objectionable use for advertising purposes of occasional analyses of samples that are far above the guarantee. It is impossible

to mix fertilizers with exact uniformity. They are always mixed in comparatively small charges and, where large stocks are prepared before the fertilizer season, are dumped in a large pile. Different additions to this pile will necessarily vary more or less, depending on the care taken in mixing the small charges composing it. In this way analyses of samples from different bags filled "from the same pile" at different times, or even at the same time, will show more or less variation, and it is always the high ones that are used by the manufacturers. Manufacturers have even been known to put a higher grade of fertilizer into their branded bags than was their regular custom, having such goods placed at convenient points for inspection or furnished to certain farmers with the understanding that it be sampled and analyzed. This trick has not been so easy since the amending of Section 6 of the Fertilizer Law.

Some manufacturers claim, that while they aim to have their goods slightly overrun their guarantee, they do not aim to have any considerable excess. That it is not good business and should not be expected any more than the grocer should be expected to give two pounds of sugar when only one has been ordered. It is contended that the man who does this must make up what he loses in this way by increased prices, and that it is really an advertising dodge intended to deceive, as he, either orally, or in his printed advertisements, really guarantees much more than he prints on the bags, thus relieving himself from legal liability. If given no more credit in the State Chemist's report than what they legally guarantee, it would stop this method of advertising.

The buyers of fertilizers are in a better position to become acquainted with some of these tricks of the salesman than is the chemist or inspector.

As stated above, we would be pleased to hear from those for whose benefit the inspections are intended in regard to these or other proposed changes.

Address:

H. B. McDONNELL,

College Park, Md.

Fertilizer Law of Maryland.

Section 1. That the term "fertilizer," as used in this Act, shall be held to mean any commercial fertilizer, or any article, substance or mixture sold, offered or exposed for sale for manurial purposes within this State, of which the selling price shall be more than ten dollars per ton of two thousand pounds.

That the term "brand," as used in this Act, shall be held to mean the name under which the commercial fertilizer is sold, together with the statement of the percentage of valuable ingredients contained therein.

That the professor in charge of the Chemical Department of the Maryland Agricultural College shall be ex-officio State Chemist, or (that the term State Chemist, as used in this Act, shall mean the professor in charge of the Chemical Department of the Maryland Agricultural College).

Sec. 2. And be it enacted, That before any fertilizer is sold, offered or exposed for sale within the State, the following conditions must be complied with: (1) The importer, manufacturer, manipulator, dealer or agent shall take out a license for the sale of fertilizer, which license shall be rated upon the number of brands contemplated to be sold at the rate of fifteen dollars for each brand; said license to be prepared and furnished by the Comptroller of the Treasury, and to be issued at any time, to be good until the first day of February following; provided that when any such importer, manufacturer or manipulator shall have taken out a license as herein provided, it shall not be necessary for any other person, as his agent or representative, to take out a license to sell the fertilizers provided for by the party who had taken out such license. (2) Every bag, barrel or package of fertilizer, and every parcel or lot, if sold in bulk, must bear in legible print, or be accompanied by a clear and true statement, showing the net pounds of fertilizer in the package or lot, the name, brand or trade-mark under which the fertilizer is sold, the name and address of the importer, manufacturer or manipulator, the place of manufacture or manipulation, and a chemical analysis stating the percentum of the minimum, and only the minimum, contained therein of nitrogen or its equivalent in available ammonia, of potash soluble in distilled water, and of available phosphoric acid.

Sec. 3. And be it enacted, That any failure to comply with any or all of the conditions provided in Section 2 of this Act, shall be punishable by a fine of one hundred dollars ($100) for the first offense, and of two hundred dollars ($200) for every subsequent offense.

Sec. 4. And be it enacted, That any person, firm or company selling or offering for sale any fertilizer in this State, or intending so to do, and not licensed by the Comptroller, as provided by this Act, shall on and before the thirty-first day of July in each and every year, send his or their name or names, with the postoffice address, and the names of the kinds, brands and trade-marks, and of the manufacturer, importer or manipulator of each fertilizer sold or proposed to be sold, to the Maryland Agricultural College, and the same shall be registered in

suitable books kept for that purpose, and any failure to comply with the provisions of this section shall be punishable by a fine of twenty-five dollars ($25) for the first offense, and of fifty dollars ($50) for every subsequent offense.

Sec. 5. And be it enacted, That it shall be the duty of the Maryland Agricultural College to analyze, without cost or charge, all samples of fertilizer sent to it for the purpose of being analyzed by any person, or persons purchasing or procuring the same in this State for his or their use or uses; provided, such pesons are not interested in the analysis desired other than a consumer, of which affidavit shall be made and shall accompany each sample or brand; and further, such samples are taken and sent as described by this Act and free of cost of transportation to said College, and it shall be the duty of the Maryland Agricultural College to procure samples, as far as practicable, in every year, of all the fertiizers sold and used in this State, for the purpose of analyzing the same, and any duly authorized agent or representative of the said College shall have the right to take samples, as provided by this Act, from any lot or parcel of fertilizer in transit or in possession or keeping of any manufacturer, manipulator, dealer or agent, and sold or offered for sale in this State, and it shall be the duty of the Maryland Agricultural College to send in the result of every sample of fertilizer to the persons from whom such sample was taken or received, and also to publish from time to time the results of the analysis made by the said College of the samples sent to or procured by it for such purpose, and it shall be the duty of the Maryland Agricultural College, when reporting or publishing the result of any analys; made, to state the commercial value in dollars and cents of the fertilizer so analyzed, per ton of two thousand pounds, such value to be based upon the analysis made by the College, and upon a standard of valuation to be ascertained, fixed and published by said College, annually, after conference with the proper officials of adjacent States.

Sec. 6. That all samples of fertilizer for analysis at the Maryland Agricultural College shall be taken from unbroken packages or bags that have not been damaged or injured in transit or by exposure, and when in the possession of the purchaser or purchasers within thirty (30) days after coming into their possession, it shall be lawful for any such purchaser or purchasers of any such manures or fertilizers, provided that he be not a manufacturer, manipulator or agent of either, to take from any such unbroken packages or bags, a sample, not exceeding two pounds, placing the same in bottle or bottles, jar or jars, which shall then be corked tightly and forwarded to the Maryland Agricultural College for analysis, that it shall not be lawful for the said Agricutural College, or its chemists, to previously demand of any such purchaser or purchasers so sending said sample or samples for analysis, to give any advices, information or statement to the said College or its chemists as to any analysis found on the original unbroken packages or bags from which said sample or samples were taken, or the name or names of any individual, representative, agent or corporation or firm from which said manures or fertilizers were purchased: and it shall be the duty of the Agricultural College to have its proper and

authorized chemist to at once make a full and complete analysis of the manures or fertilizers contained in such bottles, jar or jars, and within thirty (30) days thereafter return to such person or persons from whom the sample or samples were received a full and complete analysis of the said manures or fertilizers sent for analysis. And it shall be unlawful for any individual or any representative or agent of any corporation or firm, or any corporation or firm itself, to have, either directly or indirectly, communication with the Agricultural College or its chemist, agent or representative, or the sender of any sample with regard to the analysis of any manures or fertilizers sent to the Agricultural College by the purchaser or purchasers thereof for analysis under the provisions of this section, nor shall the Agricultural College nor its chemist nor its agent or agents, or the sender of any sample, furnish any information or communicate with any manufacturer of fertilizers about any such sample submitted for analysis until after a report of said analysis shall have been duly furnished to the applicant for such analysis under this section; provided, that all samples sent to the Maryland Agricultural College by any purchaser or purchasers, shall be drawn from at least five per cent. of the total number of bags purchased; these samples to be thoroughly mixed in a clean, dry place, and a suitable sample shall be taken from said mixture and placed in a suitable vessel or vessels, carefully closed, with an identifying label, and the same then taken or sent by safe carriage to the said College for analysis; every sample for analysis by the State Chemist, as provided for by this section, shall be fully described in forms to be furnished by said chemist free of charge, said description giving a full and complete statement of the time and place of sampling of all marks on the bags or packages thereof, and all of the facts relating to the same, said description and statement shall be made under affidavit before a justice of the peace or notary public, and the same shall be retained as confidential by said justice or notary until required by this Act to be sent to the State Chemist; provided, further, that the purchaser or purchasers sending such sample or samples of fertilizer shall withhold said description or descriptions of said sample or samples until he has received the report of the said State Chemist of the analysis of the same.

Any person or persons receiving an analysis from the State Chemist under this Act, shall immediately thereafter forward to him the statement required by this Act, to be made at the time of taking the sample or samples, and any person or persons violating the provisions of this section shall be punished by a fine of one hundred dollars; and any manufacturer, agent or representative who shall be convicted of making false and fraudulent representations as to the quality and constituent elements of any fertilizers by the printed analysis upon any such bag or package shall be fined one hundred ($100) dollars for the first offense, and two hundred ($200) dollars for every subsequent offense thereafter; and the report of the analysis of any such sample of fertilizer sent to the Agricultural College for examination under this Act shall be prima facie evidence as to the quality of the lot of fertilizer from which said sample was taken.

Sec. 7. And be it enacted, That the funds received by the Comptroller from the licenses issued under this Act shall be paid into the Treasury, and be set apart as a specific fund to pay the cost and expenses of conducting the analysis provided for in section five of this Act, and the Treasurer shall semi-annually pay over to the Maryland Agricultural College the money received from said licenses; provided, that the amount paid in any one year shall not be more than at the rate of fifteen dollars ($15) for each sample of fertilizer analyzed by the said College.

Sec. 8. And be it enacted, That any purchaser of fertilizer who shall be injured or defrauded by the contents of the bag, barrel or other packages, not conforming in quantity or quality to the marks, labels or statements on or accompanying the same, may recover from the seller or sellers thereof, in an action of debt, an amount equal to the purchase money of said fertilizer and the cost of suit; and in case the purchase is made of an agent of any person or persons residing out of the limits of the State of Maryland, or company or corporation whose principal place of business is out of the State, manufacturing, compounding, preparing and furnishing for sale any such commercial fertilizer, the purchaser thereof may, at his or her option, proceed by attachment, as now provided for by law in cases of non-resident and absconding debtors, against any property, rights or credit of any person, persons, company or corporation selling, manufacturing, preparing, compounding or furnishing said fertilizer when such property, rights or credits can be found within the limits of the State of Maryland.

Sec. 9. And be it enacted, That any manufacturer, dealer, agent or other person or persons who shall adulterate, add to or take anything from any fertilizer sold or offered for sale within this State, or who shall use the brand or trade-mark of any manufacturer or dealer other than his own, shall be deemed guilty of a misdemeanor, and shall, upon conviction thereof in any Court having jurisdiction, be punished by a fine not exceeding two hundred dollars ($200), and imprisonment in jail not exceeding six months, or by fine and imprisonment at the discretion of the Court before whom he shall be tried.

Sec. 10. And be it enacted, That this Act shall not affect parties importing, manufacturing or manipulating fertilizer for their own use, if not sold or disposed of; and it shall not apply to substances and materals sold in bulk to manufacturers or manipulators of fertilizer, and nothing in this Act shall prevent the buyer and seller from making contracts in reference to the price to be paid dependent upon the composition or quality of the fertilizer contracted for, but no arrangement or agreement, verbal or written, made by or between any seller and buyer of fertilizer in this State, for the purpose of exonerating the seller or manufacturer from liability for any violation of any of the provisions of this Act shall exempt any person from such liability.

Sec. 11. And be it enacted, That it shall be the duty of all State's Attorneys to prosecute all persons accused of violating this Act, or any of the provisions of this Act, or of the Act to which this is a supplement.

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